

● **2008**  
● **City of**  
● **Los Angeles**  
● **Building**  
● **Code**

● **Volume 1**

● **Based on the 2007 CBC and 2006 IBC®**



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(Based on the 2007 CBC and the 2006 IBC)

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# REVISION RECORD FOR THE CITY OF LOS ANGELES

Effective Date January, 2008

By starting with a loose-leaf copy of the 2007 *California Building Code*, Volume 1, and substituting the Los Angeles pages (yellow), the user will have a complete 2008 *City of Los Angeles Building Code*, Volume 1, in correct numerical sequence. It is suggested that original 2007 CBC pages that have been removed and replaced by Los Angeles pages be retained in a separate file for possible future reference.

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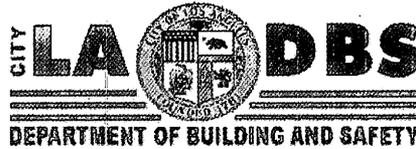
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**CITY OF LOS ANGELES**  
**DEPARTMENT OF BUILDING AND SAFETY**

**Published Codes:**

2008 Edition of the City of Los Angeles Building Code, Volumes 1 and 2  
2008 Edition of the City of Los Angeles Electrical Code  
2008 Edition of the City of Los Angeles Plumbing Code  
2008 Edition of the City of Los Angeles Mechanical Code

**Related Codes and Standards:**

City of Los Angeles Municipal Code  
City of Los Angeles Planning and Zoning Code  
California Building Standards Code, Parts 7, 8, and 10



## CITY OF LOS ANGELES DEPARTMENT OF BUILDING AND SAFETY

The mission of the Department of Building and Safety is to protect the lives and safety of the residents and visitors of the City of Los Angeles, preserve the City's quality of life, and contribute to the City's economic development. This is accomplished through implementation of the Zoning, Building, Plumbing, Mechanical, and Electrical Codes, as well as, the State Energy and Disabled Access regulations, and State and local laws for construction and maintenance of commercial, industrial and residential buildings.

The Department of Building and Safety is the largest organization of its kind in the United States with a dedicated staff of more than 870 employees. The Department provides service to a population of more than 3.8 million people in a metropolitan area of more than 470 square miles with its 16 offices located throughout the City.

### AWARDS AND COMMENDATIONS:

The recent innovations and improvements in the City of Los Angeles Department of Building and Safety have been recognized and acknowledged by a number of local, state and national organizations. Some of these recent awards and commendations are:

**Building Department of the Year:** The Department was named "The 1999 Building Department of the Year" by the California Building Officials (CALBO) in March 1999. The Department was recognized for demonstrating excellence and achieving success in innovation, community service, education, code development and customer service.

**Innovations In American Government Award:** In May 2002, the Department was awarded the prestigious "Innovations In American Government Award" from Harvard University's John F. Kennedy School of Government for its use of technology and performance measurements to increase productivity and customer service in a large governmental organization.

**Grand Prize for Productivity and Quality:** In September 1999, the Los Angeles County Quality and Productivity Commission awarded its "Grand Prize for Productivity and Quality" to the City of Los Angeles Department of Building and Safety and the County of Los Angeles Building Division for their tremendous innovation in creating and developing the Los Angeles Regional Uniform Code Program (LARUCP). This program creates regional uniformity and reduces the number of local technical amendments to model codes, including the Uniform Building Code, Uniform Plumbing Code, Uniform Mechanical Code and the National Electrical Code, as amended by the State of California, for adoption by jurisdictions in the greater Los Angeles region.

**National Streamlining Achievement Award:** The National Conference of States on Building Codes and Standards, Inc. (NCS/BCS) in April 1999 announced that City of Los Angeles was the 1999 recipient of the "Streamlining Achievement Award." The Department was recognized for its innovation in its Case Management Unit, which assists customers by guiding them through City's regulatory agencies, policies and procedures in a timely and efficient manner.

**Building Official of the Year:** In March 2000, Department General Manager, Andrew A. Adelman was presented with this award by California Building Officials, which represents all Building Officials in the State of California, for his extraordinary accomplishments in the City of Los Angeles and in helping others in the building code enforcement profession.

**Los Angeles Downtown Breakfast Club's Rose Award:** The Department received the Rose Award from the Downtown Breakfast Club in April of 1999 for its outstanding contribution to the enhancement of the City's business climate and economic development, which includes the Department's One Stop Construction Service Center and streamlining the development review process.

**Local Government Official of the Year - West Region:** This award was given to the Department of Building and Safety from the Building Industry Association in February 2000 in recognition of the improvement and innovations in development review and approval that have been implemented by the Department of Building and Safety.

**The Westside Prize 2000 and Westside Prize 2002:** In June 2000, the General Manager of the Department of Building and Safety, Andrew A. Adelman, received a "Special Award" from the Westside Urban Forum for the outstanding work in creating a new culture of customer service in the Department. Then, in June 2002, the City of Los Angeles Department of Building and Safety was recognized again by the Westside Urban Forum for the e-Permit project, which allows the Department of Building and Safety customers to apply for, pay for and receive express permits via the internet or a fax machine 24 hours a day, seven days a week.

**Treasure of Central City Association:** The Los Angeles Central City Association on January 2002 gave an award of “Treasure of Central City Association” to the Department of Building and Safety for outstanding contributions in community service and for promoting the health and vitality of the City of Los Angeles.

**Public Service Award:** In June 2000, the Department of Building and Safety was recognized by the Structural Engineers Association of Southern California for its efforts in reorganizing and improving the Department

**Leadership in Engineering for Revitalizing Key Municipal Services:** This award was given to the Department in February 2000 based on the nominations from Consulting Engineers and Land Surveyors of California in recognition of the Department’s outstanding contributions to the advancement of the Engineering Profession.

**Special Recognition Award:** In October 2001, Andrew Adelman, General Manager of the Department of Building and Safety was given this award by the Los Angeles Area Chamber of Commerce and Construction Industry Awards Committee in honor of the outstanding contribution to local construction in the community.

**Award for Dedicated Services to the Los Angeles Regional Uniform Code Program (LARUCP):** In June 2003, the Department of Building and Safety was recognized by the Structural Engineers Association of Southern California for its efforts in participating with the Engineering Community of Los Angeles with the development of Structural and Seismic Design standards for the construction of buildings.

**Growing With Our Cities and Communities Award:** In October 2002, the Andrew Adelman, General Manager of the Department of Building and Safety, was given this award from the Asian-American Architects/ Engineers Association for significant achievement in the community.

**City of Los Angeles Productivity Improvement Award:** The Department has received 24 Productivity Improvement Awards from the City of Los Angeles Quality and Productivity Improvement Commission from 1997 to 2005. The 24 Productivity Improvement Awards are as follows: Building Permit Clearance Handbook, Internet Request for Inspection System, Code Enforcement Information System (CEIS), Inspection Bureau Performance Report, Van Nuys District Office One Stop Construction Services Center, Streamlining the Residential Property Report Process, Customer Call Center, e-Permits, Streamlining Over-the-Counter Building Permit Process, Q-Matic Customer Queuing System, Code Enforcement Bureau, Proactive Code Enforcement Program, Los Angeles Regional Uniform Code Program, LADBS Information Bulletins Program, Automated Inspection Request System, Centralized Request for Inspections, Vacant Building Abatement Program, Citywide Nuisance Abatement Program, Delivering Guaranteed & Responsive Customer Service, Case Management Unit, Appointment Plan Check, Automated Certificate of Occupancy System (ACOS), Fire Life Safety Testing Program, and Alternative Maritime Power (AMP) Program.

## **FUNCTIONS AND RESPONSIBILITIES OF THE DEPARTMENT**

### **A Few Noteworthy Facts about the Department of Building and Safety:**

- Provides services to Los Angeles City residents through 16 different offices located throughout the City
- Serves over 500,000 walk-in customers annually
- Responds to over 822,000 customer phone calls annually
- Issues over 139,000 permits with a total valuation of over \$5.3 billion annually
- Conducts over 900,000 inspections annually
- Issues over 16,900 trade licenses for 16 different occupations annually
- Provides information for over 80,000 addresses annually
- Responds to over 43,000 Code Enforcement service requests annually
- Brings back over 36,000 properties to compliance annually
- Abate over 640 nuisance and abandoned buildings annually
- Reviews and approves plans for over 50,000 projects annually

### **The Responsibilities of the Department of Building and Safety Are Assigned to Four Bureaus:**

**The Engineering Bureau** is primarily responsible for the plan checking, report approval, and permit issuance related to building projects within privately owned property in the City of Los Angeles. In the course of carrying out these responsibilities, the Engineering Bureau enforces the structural, building, plumbing, mechanical, electrical, grading and zoning regulations of the City. In addition, the Engineering Bureau is responsible for reviewing applications for building, plumbing, mechanical and electrical product approvals through its Electrical and Mechanical Test Laboratories.

**The Inspection Bureau** is responsible for inspection of all construction activities for new and existing buildings, plumbing, mechanical, electrical, elevator and pressure vessel systems, the enforcement of applicable State and local laws relating to existing buildings and property, and the administration of various special programs mandated by the City Council.

**The Code Enforcement Bureau** was created as a part of a reorganization of code enforcement functions in 1999. This Bureau is responsible for the enforcement of Municipal Code requirements for all existing buildings in the City of Los Angeles, except rental multi-family dwellings. The Bureau handles complaints, citations, processing of vacant and nuisance buildings for repair or demolition, Signs, Vehicle Establishment Inspection Program and Proactive Code Enforcement Program among others.

**The Resource Management Bureau** is responsible for the direction and coordination of administrative and financial projects, systems development, training and acts as the emergency disaster coordinator for all Department operations.

### **The Board of Building and Safety Commissioners:**

The Board of Building and Safety Commissioners is a five-member board of citizens residing in the City and appointed by the Mayor and confirmed by the City Council. The Commission has the authority to hear and act upon appeals from determinations, orders, or actions of the Department or the Superintendent of Building, pertaining to enforcement of the codes under the jurisdiction of the Department. In addition, the Commission conducts public hearings, as needed, regarding procedures, new codes and various functions of the Department. Finally, the Commission acts in an advisory capacity to the Department and the Superintendent of Building.

# EFFECTIVE USE OF THE CITY OF LOS ANGELES BUILDING CODE

The *City of Los Angeles Building Code* was established in 1889 with the appointment of the first superintendent of building. In 1923, the first of 18 volumes of the Los Angeles Annual Builder's Guide was published. This guide is a handbook for architects and builders and contains a complete cross index of the Los Angeles building ordinances, electrical ordinances and supplementary rulings and the California State Housing Act.

After 1936, the building regulations of Chapter IX of the *Los Angeles Municipal Code* were established by the passage of Ordinance No. 77,000. But it was 1943 when Ordinance No. 87,000 amended in its entirety Article 1 of Chapter IX of the *Los Angeles Municipal Code* and a new *Los Angeles City Building Code* was published. This edition of the *Los Angeles Municipal Code* established the format of the different divisions and sections relevant to the building regulations in the city.

Through the intervening years, the code has been amended and revised regularly to keep pace with the ever-changing technology of the construction industry and new and proven concepts of structural design.

The State of California has mandated the City of Los Angeles to enforce the *California Building Code* (CBC). The City Council for the City of Los Angeles has passed Ordinance Number 179,324 (operative January 1, 2008) to amend Article 1 of Chapter IX of the *Los Angeles Municipal Code* and to adopt by reference the 2007 edition of the *California Building Code* (CBC) and hereinafter shall be called the 2008 edition of the *City of Los Angeles Building Code*.

Chapter 1 is the general administrative provisions of the City of Los Angeles and replaces Chapter 1 of the CBC.

Chapters 2 through 35 are the general provisions of the *California Building Code*.

Chapters 61 through 72 have been added to the code to provide special requirements of the City of Los Angeles.

Chapters 81 through 91 are the city code requirements of existing buildings and structures.

Chapters 92 through 96 are the city standard for voluntary earthquake hazard reduction standards for existing buildings.

At the end of Volume 2 of the Building Code, "Excerpts" has been added for additional reference to the industry. Excerpts are the accumulation of related Los Angeles City codes and municipal and administrative code sections pertaining to Department of Building and Safety.

## Marginal Markings

LA  
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LA

This symbol indicates that a City of Los Angeles amendment has been added to the 2007 *California Building Code*.

*[For HCD 1]* This italicized notation is used to identify which state agency has amended a section of the IBC.  
For a complete listing of state agencies, refer to CBC Section 101.17 et seq.

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# CHAPTER 1

## ADMINISTRATION

### SECTION 101 TITLE, PURPOSE AND SCOPE

**101.1 Title.** This article shall be known as the “Los Angeles Building Code” or “Building Code” or “LABC,” a portion of the *Los Angeles Municipal Code* (LAMC), and wherever the word “Code” is used in this article it shall mean the “Los Angeles Building Code.” The *Los Angeles Building Code* adopts by reference portions of the *California Building Code*.

**101.2 Purpose.** The purpose of this article is to safeguard life, limb, health, property and public welfare by regulating and controlling the design, construction, quality of materials, use and occupancy, location and maintenance of all buildings and structures erected or to be erected within the city and by regulating certain grading operations within the city.

**101.3 Application.** Chapters 1 through 96 of the *Los Angeles Building Code* as published by the International Code Council (hereinafter referred to as the published code), are Chapters 1 through 96, respectively, of Article 1, Chapter IX, of the *Los Angeles Municipal Code*. For uniformity with the *California Building Code* (CBC), only the division and section numbers are stated in the published code. For the complete *Los Angeles Municipal Code* section number, each code section number specified in Chapters 1 through 96 of the published code shall be presumed to be preceded by two digits and a decimal point (specifically “91.”). For example, this section is Section 91.101.3 of the *Los Angeles Municipal Code*. Wherever in this code reference is made to the appendix, the provisions in the appendix shall not apply unless specifically adopted.

**NOTE:** For clarification purposes, the following sections of the CBC are repeated.

### SECTION 108 DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT

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

#### 108.2 Authority and abbreviations.

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

Development are listed in Sections 108.2.1.1 through 108.2.1.3.

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

**Enforcing agency—**Local building department or the Department of Housing and Community Development.

**Authority cited—**Health and Safety Code Sections 17921, 17922 and 19990.

**Reference—**Health and Safety Code Sections 17000 through 17060, 17910 through 17990 and 19960 through 19997.

**108.2.1.2 Housing accessibility.** Application - Covered multifamily dwelling units as defined in Chapter 11A including, but not limited to, lodging houses, dormitories, timeshares, condominiums, shelters for homeless persons, congregate residences, apartment houses, dwellings, employee housing, factory-built housing and other types of dwellings containing sleeping accommodations with or without common toilet or cooking facilities.

Sections of this code identified in the Matrix Adoption Table by the abbreviation “HCD 1-AC” require specific accommodations for persons with physical disabilities, as defined in Chapter 11A. The application of such provisions shall be in conjunction with other requirements of this code and apply only to Group R occupancies which are newly constructed covered multifamily dwellings as defined in Chapter 11A of the *California Building Code*. “HCD 1-AC” applications include, but are not limited to, the following:

1. All newly constructed covered multifamily dwellings as defined in Chapter 11A.
2. New common use areas as defined in Chapter 11A serving existing covered multifamily dwellings.
3. Additions to existing buildings, where the addition alone meets the definition of a “Covered multifamily dwelling” as defined in Chapter 11A.
4. Common use areas serving covered multifamily dwellings.

“HCD 1-AC” building standards generally do not apply to public use areas or public accommodations such as hotels and motels. Public use areas, public accommodations and housing which is publicly funded as defined in Chapters 2, 11A and 11B of this code are subject to the Division of the State Architect (DSA-AC) and are referenced in Section 109.1.

**Enforcing agency**—Local building department or the Department of Housing and Community Development.

**Authority cited**—Health and Safety Code Sections 17921, 17922 and 19990 and Government Code Section 12955.1.

**Reference**—Health and Safety Code Sections 17000 through 17060, 17910 through 17990 and 19960 through 19997 and Government Code Section 12955.1.

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

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

**SECTION 109  
DIVISION OF STATE ARCHITECT**

**109.1 Division of the State Architect—Access Compliance.**

**General.** The purpose of this code is to ensure that barrier-free design is incorporated in all buildings, facilities, site work and other improvements to which this code applies in compliance with state law to ensure that these improvements are accessible to and usable by persons with disabilities. Additions, alterations and structural repairs in all buildings and facilities shall comply with these provisions for new buildings, except as otherwise provided and specified herein.

The provisions of these regulations shall apply to any portable buildings leased or owned by a school district, and shall also apply to temporary and emergency buildings and facilities. Temporary buildings and facilities are not of permanent construction but are extensively used or are essential for public use for a period of time. Examples of temporary buildings or facilities covered include, but are not limited to: reviewing stands, temporary classrooms, bleacher areas, exhibit areas, temporary banking facilities, temporary health screening ser-

vices or temporary safe pedestrian passageways around a construction site.

In addition, to incorporate standards at least as restrictive as those required by the federal government for barrier-free design under (1) Title III (Public Accommodations and Commercial Facilities), Subpart D (New Construction and Alteration) and Appendix A (Americans with Disabilities Act Standards for Accessible Design) (see 28 C.F.R., Part 36), and (2) Title II (Public Entities), Section 35.151 (New Construction and Alterations) (see 28 C.F.R., Part 35) both from the Americans with Disabilities Act of 1990, and (3) under the Fair Housing Amendments Act of 1988. Some of these regulations may be more stringent than state law in order to meet the federal requirement.

**109.1.1 Application.** See Government Code commencing with Section 4450.

Publicly funded buildings, structures, sidewalks, curbs and related facilities shall be accessible to and usable by persons with disabilities as follows:

**109.1.1.1** All buildings, structures, sidewalks, curbs and related facilities constructed in the state by the use of state, county or municipal funds, or the funds of any political subdivision of the state.

**109.1.1.2** All buildings, structures and facilities that are leased, rented, contracted, sublet or hired by any municipal, county or state division of government, or by a special district.

**109.1.1.3** All publicly funded buildings used for congregate residences or for one- or two-family dwelling unit purposes shall conform to the provisions applicable to living accommodations.

**109.1.1.4** All existing publicly funded buildings and facilities when alterations, structural repairs or additions are made to such buildings or facilities. For detailed requirements on existing buildings, see Chapter 11B, Division IV.

**109.1.1.5** With respect to buildings, structures, sidewalks, curbs and related facilities not requiring a building permit, building standards published in the California Building Standards Code relating to access for persons with disabilities and other regulations adopted pursuant to Government Code Section 4450, and in effect at the time construction is commenced, shall be applicable.

**109.1.2 Application.** See Health and Safety Code commencing with Section 19952.

All privately funded public accommodations, as defined and commercial facilities, as defined, shall be accessible to persons with disabilities as follows:

**Exception:** Certain types of privately funded multistory buildings do not require installation of an elevator to provide access above and below the first floor. See Chapter 11B.

**109.1.2.1** Any building, structure facility, complex or improved area, or portions thereof, which are used by the general public.

**109.1.2.2** Any sanitary facilities which are made available for the public, clients or employees in such accommodations or facilities.

**109.1.2.3** Any curb or sidewalk intended for public use that is constructed in this state with private funds.

**109.1.2.4** All existing privately funded public accommodations when alterations, structural repairs or additions are made to such public accommodations as set forth under Chapter 11B.

**109.1.3 Application—Public housing and private housing available for public use.** See Government Code Sections 4450 and 12955.1(d).

**109.1.4 Enforcing agency.**

**109.1.4.1** The director of the Department of General Services where state funds are utilized for any project or where funds of counties, municipalities or other political subdivisions are utilized for the construction of elementary, secondary or community college projects.

**109.1.4.2** The governing bodies where funds of counties, municipalities or other political subdivisions are utilized except as otherwise provided above.

**109.1.4.3** The building department of every city, county or city and county within the territorial area of its city, county or city and county, where private funds are utilized. "Building department" means the department, bureau or officer charged with the enforcement of laws or ordinances regulating the erection or construction, or both the erection and construction, of buildings.

**109.1.5 Special conditions for persons with disabilities requiring appeals action ratification.** Whenever reference is made in these regulations to this section, the findings and determinations required to be rendered by the local enforcing agency shall be subject to ratification through an appeals process.

**109.1.6 Authority cited—**Government Code Section 4450.

**109.1.7 Reference cited—**Government Code Sections 4450 through 4461 and 12955.1(d) and Health and Safety Code Sections 18949.1, 19952 through 19959.

**SECTION 110  
OFFICE OF STATEWIDE HEALTH  
PLANNING AND DEVELOPMENT**

**110.1 OSHPD 1.** Specific scope of application of the agency responsible for enforcement, enforcement agency and the specific authority to adopt and enforce such provisions of this code, unless otherwise stated.

**Application—**General acute care hospitals and acute psychiatric hospitals, excluding distinct part units or distinct part freestanding buildings providing skilled nursing or intermediate care services. For structural regulations: Skilled nursing facilities and/or intermediate care facilities except those skilled nursing facilities and intermediate care facilities of single-story, Type V, wood or light steel-frame construction.

**Enforcing agency—**Office of Statewide Health Planning and Development (OSHPD). The office shall enforce the Division of the State Architect—Access Compliance regulations and the regulations of the Office of the State Fire Marshal for the above stated facility types.

**110.1.1 Applicable administrative standards.**

1. Title 24, Part 1, California Code of Regulations: Chapters 6 and 7.
2. Title 24, Part 2, California Code of Regulations: Sections 101 and 110 of Chapter 1 and Appendix Chapter 1.

**110.1.2 Applicable building standards.** California Building Standards Code, Title 24, Parts 2, 3, 4, 5, 9, 10 and 12.

The provisions of Title 24, Part 2, as adopted and amended by OSHPD, shall apply to the applications listed in Section 110.1.

OSHPD 1 adopts the following building standards in Title 24, Part 2:

Chapters 2 through 10, 12, 14, 15, 16A, 17A, 18A, 19A, 20, 21A, 22A, 23, 24, 25, 26, 30, 31, 32, 33, 34A, 35 and Appendix J.

**110.1.3 Identification of amendments.** For applications listed in Section 110.1, amendments appear in this code preceded with the acronym [OSHPD 1], unless the entire chapter is applicable. When the entire chapter is adopted without amendments, all references to International Codes shall be replaced by equivalent California Codes.

**110.1.4 Reference to other chapters.** Where reference is made within this code to sections in Chapters 16, 17, 18, 19, 21, 22 and 34, the respective sections in Chapters 16A, 17A, 18A, 19A, 21A, 22A and 34A shall apply instead.

**Authority—**Health and Safety Code Sections 127010, 127015, 1275 and 129850.

**References—**Health and Safety Code Sections 19958, 127010, 127015, 129680, 1275 and 129675 through 130070.

**110.2 OSHPD 2.** Specific scope of application of the agency responsible for enforcement, enforcement agency and the specific authority to adopt and enforce such provisions of this code, unless otherwise stated.

**Application—**Skilled nursing facilities and intermediate care facilities, including distinct part skilled nursing and intermediate care services on a general acute care or acute psychiatric hospital license, provided either are in a separate unit or a freestanding building. For structural regulations: Single-story, Type V skilled nursing facility and/or intermediate care facilities utilizing wood or light steel-frame construction.

**Enforcing agency—**Office of Statewide Health Planning and Development (OSHPD). The office shall also enforce the Division of the State Architect—Access Compliance regulations and the regulations of the Office of the State Fire Marshal for the above-stated facility type.

**110.2.1 Applicable administrative standards.**

1. Title 24, Part 1, California Code of Regulations: Chapter 7.

2. Title 24, Part 2, California Code of Regulations: Sections 101 and 110 of Chapter 1 and Appendix Chapter 1.

**110.2.2 Applicable building standards.** California Building Standards Code, Title 24, Parts 2, 3, 4, 5, 9, 10 and 12.

The provisions of Title 24, Part 2, as adopted and amended by OSHPD, shall apply to the applications listed in Section 110.2.

OSHPD 2 adopts the following building standards in Title 24, Part 2:

Chapters 2 through 10, 12, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 30, 31, 32, 33, 34, 35 and Appendix J.

**110.2.3 Identification of amendments.** For applications listed in Section 110.2, amendments appear in this code preceded with the acronym [OSHPD 2]. When the entire chapter is adopted without amendments, all references to International Codes shall be replaced by equivalent California Codes.

**Authority**—Health and Safety Code Sections 127010, 127015, 1275 and 129850.

**References**—Health and Safety Code Sections 127010, 127015, 1275 and 129680.

**110.3 OSHPD 3.** Specific scope of application of the agency responsible for enforcement, enforcement agency and the specific authority to adopt and enforce such provisions of this code, unless otherwise stated.

**Application**—Licensed clinics and any freestanding building under a hospital license where outpatient clinical services are provided.

**Enforcing agency**—Local building department.

**110.3.1 Applicable administrative standards.**

1. Title 24, Part 1, California Code of Regulations: Chapter 7.

2. Title 24, Part 2, California Code of Regulations: Sections 101 and 110 of Chapter 1 and Appendix Chapter 1.

**110.3.2 Applicable building standards.** California Building Standards Code, Title 24, Parts 2, 3, 4, 5, 9, 10 and 12.

The provisions of Title 24, Part 2, as adopted and amended by OSHPD, shall apply to the applications listed in Section 110.3.

OSHPD 3 adopts the following building standards in Title 24, Part 2:

Chapters 2 through 10, 12, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 30, 31, 32, 33, 34, 35 and Appendix J.

**110.3.3 Identification of amendments.** For applications listed in Section 110.3, amendments appear in this code without the acronym [OSHPD 3]. Adoptions are shown in the adoption matrix. When the entire chapter is adopted without amendments, all references to International Codes shall be replaced by equivalent California Codes.

**Authority**—Health and Safety Code Sections 127010, 127015 and 1226.

**References**—Health and Safety Code Sections 127010, 127015, 129885 and 1226, Government Code Section 54350 and State Constitution Article 11, Section 7.

**110.4 OSHPD 4.** Specific scope of application of the agency responsible for enforcement, enforcement agency and the specific authority to adopt and enforce such provisions of this code, unless otherwise stated.

**Application**—Correctional treatment centers.

**Enforcing agency**—Office of Statewide Health Planning and Development (OSHPD). The office shall also enforce the Division of the State Architect—Access Compliance regulations and the regulations of the Office of the State Fire Marshal for the above-stated facility types.

**110.4.1 Applicable administrative standards.**

1. Title 24, Part 1, California Code of Regulations: Chapter 7.

2. Title 24, Part 2, California Code of Regulations: Sections 101 and 110 of Chapter 1 and Appendix Chapter 1.

**110.4.2 Applicable building standards.** California Building Standards Code, Title 24, Parts 2, 3, 4, 5, 9, 10 and 12.

The provisions of Title 24, Part 2, as adopted and amended by OSHPD, shall apply to the applications listed in Section 110.4.

OSHPD 4 adopts the following building standards in Title 24, Part 2:

Chapters 2 through 10, 12, 14, 15, 16A, 17A, 18A, 19A, 20, 21A, 22A, 23, 24, 25, 26, 30, 31, 32, 33, 34A, 35 and Appendix J.

**110.4.3 Identification of amendments.** For applications listed in Section 110.4, amendments appear in this code preceded with the acronym [OSHPD 4], unless the entire chapter is applicable. When the entire chapter is adopted without amendments, all references to International Codes shall be replaced by equivalent California Codes.

**110.4.4 Reference to other chapters.** Where reference is made within this code to sections in Chapters 16, 17, 18, 19, 21, 22 and 34, the respective sections in Chapters 16A, 17A, 18A, 19A, 21A, 22A and 34A shall apply instead.

**Authority**—Health and Safety Code Sections 127010, 127015 and 129790.

**References**—Health and Safety Code Sections 127010, 127015, 1275 and 129675 through 130070.

## SECTION 111

### OFFICE OF THE STATE FIRE MARSHAL

**111.1 SFM—Office of the State Fire Marshal.**

Any building or structure used or intended for use as an asylum, jail, mental hospital, hospital, sanitarium, home for the aged, children's nursery, children's home, school or any similar occupancy of any capacity.

Any theater, dancehall, skating rink, auditorium, assembly hall, meeting hall, nightclub, fair building or similar place of

assemblage where 50 or more persons may gather together in a building, room or structure for the purpose of amusement, entertainment, instruction, deliberation, worship, drinking or dining, awaiting transportation, or education.

**Authority cited**—Health and Safety Code Section 13143.

**Reference**—Health and Safety Code Section 13143.

#### **Small family day care homes.**

**Authority cited**—Health and Safety Code Sections 1597.45, 1597.54, 13143 and 17921.

**Reference** - Health and Safety Code Section 13143.

#### **Large family day care homes.**

**Authority cited**—Health and Safety Code Sections 1597.46, 1597.54 and 17921.

**Reference** - Health and Safety Code Section 13143.

#### **Residential facilities and residential facilities for the elderly.**

**Authority cited**—Health and Safety Code Section 13133.

**Reference**—Health and Safety Code Section 13143.

#### **Any state institution or other state-owned or state-occupied building.**

**Authority cited**—Health and Safety Code Section 13108.

**Reference**—Health and Safety Code Section 13143.

#### **High-rise structures.**

**Authority cited**—Health and Safety Code Section 13211.

**Reference**—Health and Safety Code Section 13143.

#### **Motion picture production studios.**

**Authority cited**—Health and Safety Code Section 13143.1.

**Reference**—Health and Safety Code Section 13143.

#### **Organized camps.**

**Authority cited**—Health and Safety Code Section 18897.3.

**Reference**—Health and Safety Code Section 13143.

#### **Residential.**

All hotels, motels, lodging houses, apartment houses and dwellings, including congregate residences and buildings and structures accessory thereto.

Multiple-story structures existing on January 1, 1975, let for human habitation, including and limited to, hotels, motels and apartment houses, less than 75 feet (22 860 mm) above the lowest floor level having building access, wherein rooms used for sleeping are let above the ground floor.

**Authority cited**—Health and Safety Code Sections 13143.2 and 17921.

**Reference**—Health and Safety Code Section 13143.

#### **Residential care facilities.**

Certified family care homes, out-of-home placement facilities, halfway houses, drug and/or alcohol rehabilitation facilities and any building or structure used or intended for use as a home or institution for the housing of any person of any age when such person is referred to or placed within such home or

institution for protective social care and supervision services by any governmental agency.

**Authority cited**—Health and Safety Code Section 13143.6.

#### **Tents, awnings or other fabric enclosures used in connection with any occupancy.**

**Authority cited**—Health and Safety Code Section 13116.

**Reference**—Health and Safety Code Section 13143.

**Enforcing agency**—Pursuant to Section 13146, Health and Safety Code.

#### **Fire alarm devices, equipment and systems in connection with any occupancy.**

**Authority cited**—Health and Safety Code Section 13114.

#### **Hazardous materials.**

**Authority cited**—Health and Safety Code Section 13143.9.

#### **Flammable and combustible liquids.**

**Authority cited**—Health and Safety Code Section 13143.6.

#### **Public School Automatic Fire Detection, Alarm and Sprinkler Systems.**

**Authority cited**—Health and Safety Code Section 13143 and California Education Code Article 7.5, Sections 17074.50, 17074.52 and 17074.54.

**Reference**—Government Code Section 11152.5, Health and Safety Code Section 13143 and California Education Code Chapter 12.5, Leroy F. Greene School Facilities Act of 1998, Article 1.

#### **Wildland-Urban Interface Fire Area.**

**Authority cited**—Health and Safety Code Sections 13143, 13108.5(a) and 18949.2(b) and (c) and Government Code Section 51189.

**Reference**—Health and Safety Code Sections 13143, Government Code Sections 51176, 51177, 51178 and 51179 and Public Resources Code Sections 4201 through 4204.

### **111.2 Duties and powers of the enforcing agency.**

#### **111.2.1 Enforcement.**

**111.2.1.1** The responsibility for enforcement of building standards adopted by the State Fire Marshal and published in the California Building Standards Code relating to fire and panic safety and other regulations of the Office of the State Fire Marshal shall be as follows:

1. The city, county or city and county with jurisdiction in the area affected by the standard or regulation shall delegate the enforcement of the building standards relating to fire and panic safety and other regulations of the State Fire Marshal as they relate to Group R, Division 3 dwellings, as described in Section 310.1 of Part 2 of the California Building Standards Code, to either of the following:

- 1.1. The chief of the fire authority of the city, county or city and county, or an authorized representative.

1.2. The chief building official of the city, county or city and county, or an authorized representative.

- 2. The chief of any city or county fire department or of any fire protection district, and authorized representatives, shall enforce within the jurisdiction the building standards and other regulations of the State Fire Marshal, except those described in Item 1 or 4.
- 3. The State Fire Marshal shall have authority to enforce the building standards and other regulations of the State Fire Marshal in areas outside of corporate cities and districts providing fire protection services.
- 4. The State Fire Marshal shall have authority to enforce the building standards and other regulations of the State Fire Marshal in corporate cities and districts providing fire protection services on request of the chief fire official or the governing body.
- 5. Any fee charged pursuant to the enforcement authority of this section shall not exceed the estimated reasonable cost of providing the service for which the fee is charged pursuant to Section 66014 of the Government Code.

LA 101.4 Scope. The provisions of this Code shall apply to the LA construction, alteration, moving, demolition, repair, maintenance and use of any building or structure within this jurisdiction, except work located primarily in a public way, public utility towers and poles, mechanical equipment not specifically regulated in this Code and hydraulic flood control structures.

LA For additions, alterations, moving and maintenance of buildings and structures, see Chapter 34. For temporary buildings and structures, see Section 3103.

LA Where, in any specific case, different sections of this Code specify different materials, methods of construction or other requirements, the most restrictive shall govern. Where there is a conflict between a general requirement and a specific requirement, the specific requirement shall be applicable.

LA Wherever, in this Code, a reference is made to an appendix, the provisions in the appendix shall not apply unless specifically adopted.

LA The metric conversions are provided in parenthesis following the English units. Where industry has made metric conversions available, the conversions conform to current industry standards. Formulas are also provided with metric equivalents. LA Metric equivalent formulas immediately follow the English formula and are denoted by "For SI" preceding the metric equivalent. Some formulas do not use dimensions and, thus, are not provided with a metric equivalent. Multiplying conversion factors have been provided for formulas where metric forms were unavailable. Tables are provided with multiplying conversion factors in subheadings for each tabulated units measurement.

LA 101.5 Work not in scope. The provisions of this Code shall not apply to any of the following:

- 1. A building accessory to a dwelling and not located in Fire District No. 1, provided the building is not more

than 64 square feet (5.9 m<sup>2</sup>) in area or 8 feet (2438 mm) in height and does not contain any heating, plumbing or electrical installation and is located as permitted by the Los Angeles Zoning Code.

- 2. Oil derricks.
- 3. Towers or poles supporting public utility communication lines, antennas or power transmission lines.
- 4. Retaining walls that are not over 4 feet (1219 mm) in height, measured from the bottom of the footing to the top of the wall unless supporting a surcharge or sloping earth, or impounding flammable liquids. This exemption shall not apply to retaining walls of any height built on slopes steeper than 1 vertical to 5 horizontal (20-percent slope).
- 5. Water tanks supported directly upon grade if the capacity does not exceed 5,000 gallons (18 927 L) and the ratio of the height to diameter or width does not exceed 2 to 1.
- 6. Motion picture sets when not supported by any portion of any building.
- 7. Pergolas and lath houses, both of which shall be outside of any fire district, not over 400 square feet in area, and not supported by or attached to any portion of any building.
- 8. Work in a public way, dams and drainage structures constructed by or under contract with the Board of Public Works, the Department of Water and Power and the County Flood Control District, unless the structure forms a portion of the support for a building or a structure coming within the jurisdiction of the Department of Building and Safety.
- 9. Portable amusement devices and structures, including merry-go-rounds, ferris wheels, rotating conveyances, slides, similar devices and portable accessory structures whose use is necessary for the operation of such amusement devices and structures; any portable accessory structure included in the provisions of this subdivision shall be limited to a cover or roof over each device, but shall not include any storage building or detached structure that is not an integral part of the device.
- 10. Isolated buildings not larger in area than 16 square feet (1.5 m<sup>2</sup>), including roof projections, and not more than 8 feet (2438 mm) in height, if separated by a distance of 20 feet (6096 mm) or more.
- 11. Nothing in this Code shall apply to any excavation, removal, fill or deposit of any earth or other materials from individual interment sites, underground crypts or burial vaults within a property which is dedicated or used for cemetery purposes, provided that such work does not affect the lateral support or increase the stresses in or pressure upon any adjacent or contiguous property not owned by the cemetery authority.
- 12. The surface mining of minerals in a "G" Surface Mining District as established and provided for in Section 13.03 of the Los Angeles Municipal Code, or where permitted by order of a court of competent jurisdiction.

- 13. The depositing of rubbish or other material at any dump operated by the City of Los Angeles, or by any person pursuant to the provisions of Section 66.15 or 66.25 of the *Los Angeles Municipal Code*.
- 14. Nothing in this Code shall apply to grading in an isolated, self-contained area if the Department finds that by reason of such isolation and self-containment no danger to private or public property can now or thereafter result from grading operations.
- 15. Any portable metal hangar less than 2,000 square feet in size, located on a city-owned airport, used for the parking of aircraft only, and bearing evidence of approval by the Department of Motor Vehicles of the State of California for movement on any highway. Such structure shall, as an integral part of its basic construction, be equipped with a hitch or coupling device for towing. It shall accommodate, without further major structural change, wheel and axle assemblies that will provide such structure with a safe means of portability. No water or sanitary facilities shall be permitted in such structure, and it shall be equipped with permanent ventilation as required for Group S, Division 3 occupancies.
- 16. Tents and trailers used for office or shelter purposes accessory to a Christmas tree sales lot during the month of December only, provided the aggregate area of all tents and trailers does not exceed 600 square feet (55.7 m<sup>2</sup>) for each sales lot. (Such tents are regulated by the Fire Department under Article 7, Chapter V of the *Los Angeles Municipal Code*.)
- 17. Tents accessory to a dwelling and not exceeding 450 square feet in area (41.8 m<sup>2</sup>).
- 18. Signs not exceeding 20 square feet (1.9 m<sup>2</sup>) in area, placed upon the surface of the ground, no part of which extends more than 6 feet 6 inches (1981 mm) above the underlying ground, which have no mechanical or moving parts or to which no electricity or other source of illumination or power are attached or made a part thereof. Such signs shall be separated from each other a minimum distance of 15 feet (4572 mm).
- 19. Boards and signs used exclusively to display official notices issued by any court or public officer in the performance of a public duty or by a private person in giving legal notice.

**SECTION 102  
UNSAFE BUILDINGS OR STRUCTURES**

The regulations for the abatement of unsafe buildings or structures are enumerated in Chapter 89 of this Code.

**SECTION 103  
VIOLATIONS**

**103.1 General.** No person shall construct, alter, repair, demolish, remove, move, use, occupy or maintain, within the city, any building or structure or any portion thereof, except as provided by this Code.

No person shall grade, excavate or fill any land except as provided by this Code.

The permissive provisions of this Code shall not be presumed to waive any limitations imposed by other statutes or ordinances of the state or City.

All of the provisions of this Code shall be limitations for safeguarding life, limb, health, property and public welfare.

If two or more pertinent limitations are not identical, those limitations shall prevail which provide the greater safety to life or limb, health, property or public welfare.

**103.2 Violation of a building or grading permit.** Every person who knowingly and willfully procures a building and/or grading permit without the consent of the owner of record of the property for which the permit is issued, or such person's agent, is guilty of a misdemeanor.

**Exception:** This subsection shall not apply to building and/or grading permits obtained pursuant to and in compliance with an order of a court of law or a governmental agency.

**103.3 Violation of an order.** No person shall fail to comply with any valid order issued pursuant to any provision or requirement of this Code.

**103.4 Making false statements to the Department.** It shall be unlawful for any person, authorized by the Department to perform inspections, to make a false or misleading statement, or misrepresentation in any writing submitted to the Department.

For purposes of this section a "person authorized by the Department to perform inspections" is any person who is a registered deputy inspector, a structural inspector, a certified welder or a certified licensed contractor. The term "writing" shall include, but is not limited to, forms, applications, approvals, reports or certifications required by the Department.

Every violation of this section is punishable as a misdemeanor.

**SECTION 104  
ORGANIZATION AND ENFORCEMENT**

**104.1 Creation of the Department.**

**104.2 Powers of the Department and duties of the Superintendent of Building.**

**104.2.1 General.** The powers of the Department are enumerated in Section 98.0403.1 of the *Los Angeles Municipal Code*.

The Superintendent of Building shall have the duty to render interpretations of this Code and to adopt and enforce rules and supplemental regulations to clarify the application of its provisions. These interpretations, rules and regulations shall be in conformance with the intent and purpose of this Code.

The Superintendent of Building shall classify every building into one of the occupancies set forth in Chapter 3 of this Code according to its use or the character of its occupancy. The Superintendent of Building shall also classify

every building into one of the types of construction set forth in Chapter 6 of this Code.

**104.2.2 Authority to require exposure of work.** Whenever any work on which called inspections are required, as specified in Section 108, is covered or concealed by additional work without first having been inspected, the work shall be exposed for examination upon written notice by the Department. The work of exposing and recovering shall not entail expense to the City.

**104.2.3 Right of entry.** The authority for right of entry is enumerated in Section 98.0105 of the *Los Angeles Municipal Code*.

**104.2.4 Authority to stop work.** Whenever any construction work is being done contrary to the provisions of any law or ordinance enforced by the Department, the Department shall have the authority to issue a written notice to the responsible party to stop work on that portion of the work on which the violation has occurred. The notice shall state the nature of the violation and no work shall be done on that portion until the violation has been rectified and approval obtained from the Department.

**104.2.5 Authority to stop use or occupancy.** Whenever any portion of a building is loaded in excess for which it was constructed, or it houses an occupancy other than that for which it was constructed, or there is an encroachment upon any required court or yard, the Department shall have the authority to order by written notice that such violation be discontinued.

The written notice shall state the nature of the violations and shall fix a time for the abatement thereof. If the violations have not been abated by the expiration of the fixed time, the Certificate of Occupancy shall thereupon be canceled.

**104.2.6 Alternate materials, alternate design and methods of construction.** New or alternate materials and methods of construction may be approved by the Department in accordance with the provisions of Article 8, Chapter IX of the *Los Angeles Municipal Code*.

**104.2.7 Building materials inspection required.**

**104.2.7.1** No person shall use or cause to be used, in the construction of any building or structure for the erection of which a permit is required by this chapter, any materials which are not specifically permitted by this Code, without having first secured the approval of said materials by the Department.

**104.2.7.2** The Department may require that all materials to be used in the construction of any building or structure, or materials already used or fabricated into a building or structure be submitted for test to a testing agency approved by the Department.

**104.2.7.3** It is unlawful for any person to fail to submit to an approved testing agency within 5 days after having received a written notice from the Department a sample, sufficient for analysis, of any material to be used in the erection or construction of a building or structure, or

which has been used or fabricated into a building or structure.

**104.2.7.4** No material required by the Department to be submitted to a testing agency for analysis shall be approved by the Department unless the person requesting said approval submits a written report of the analysis by such testing agency.

**SECTION 105  
APPEALS**

**105.1 General.** Appeals or requests for slight modifications in individual cases from the requirements of this Code shall be made in accordance with the procedure established in Section 98.0403.2 of the *Los Angeles Municipal Code*.

**105.2 Building advisory appeal board.** The Building Advisory Appeal Board is hereby abolished. Any duties assigned to the Building Advisory Appeal Board by any provision of law shall be performed as determined by the Superintendent of Building.

**105.3 Engineering geology advisory committee.**

**105.3.1 Function of the committee.** It shall be the function of the Engineering Geology Advisory Committee to advise and counsel the board on appeals involving technical questions of soils engineering, geology, geology/seismology and related matters.

**105.3.2 Establishment of the committee member list.** The Board of Building and Safety Commissioners shall establish an Engineering Geology Advisory Committee member list (hereinafter in this section referred to as the "committee member list") which shall consist of not less than 10 soils engineers and engineering geologists who are available to serve as members of the Engineering Geology Advisory Committee. At least two of the engineering geologist members and two of the soils engineer members shall have experience in the field of seismic design and safety. Members of said committee shall be exempt from all civil service provisions.

**105.3.3 Procedure.** When an appeal is made to the board, and the board determines that the subject of the appeal involves a problem of soils engineering, geology, geology/seismology or a related matter on which it desires further technical advice before it renders a decision thereon, the board may select three or more persons from the Engineering Geology Advisory Committee member list to serve on a committee for the purpose of assisting the board in seeking a solution to said problem, and may refer the matter to such committee members for report and recommendation. At least one designated member of the committee shall be a soils engineer and one shall be an engineering geologist. The members of the committee meeting shall review the matter and shall then submit to the board a recommendation. When a matter is referred to the committee as in this section provided, the board shall consider, but is not bound to accept, the recommendation of the committee.

**105.3.4 Compensation of members.** Each member of the committee who is in attendance at a meeting requested by

the board shall be compensated at the rate of \$50.00 for each four hours or fraction thereof of service. However, in no case shall the compensation of the committee members exceed the fee paid by the appellant under Section 105.3.6.

**105.3.5 Self insurance by the city for committee members.** The provisions of Sections 11.36 through 11.44, inclusive, *City of Los Angeles Administrative Code*, entitled "Self Insurance by the City for Officers and Employees of Said City," shall apply to each Engineering Geology Advisory Committee member while the member is acting as such, and committee members shall be deemed to be fully covered by the provisions of said sections even though each committee member is retained as an independent person and not as an officer or employee of the city.

**105.3.6 Fees.** When a matter is referred to the committee as provided in this section, the appellant in said matter shall pay a referral fee of \$50.00 and shall also pay a fee as follows:

1. Where no more than two lots are involved in the appeal, \$150.00;
2. Where not less than three or more than 10 lots are involved in the appeal, \$300.00; and
3. Where more than 10 lots are involved in the appeal, \$600.00.

**105.4 Sign advisory committee.**

**105.4.1 Function of the committee.** It shall be the function of a Sign Advisory Committee to advise, counsel and provide recommendations to the Board of Building and Safety Commissioners on matters involving sign regulations.

**105.4.2 Establishment of the committee member list.** The Board of Building and Safety Commissioners shall establish a Sign Advisory Committee member list representing the various required fields of interest of persons who are available to serve as members of a Sign Advisory Committee. Persons selected for the Sign Advisory Committee list shall possess experience in the design, fabrication, use or application of signs, or shall have demonstrated a background in the social and environment impacts of signs or the development of sign regulations. Members of said committee shall be exempt from all civil service requirements.

**105.4.3 Procedure.** When the board determines that a matter is significant in nature, the board may refer the matter to a Sign Advisory Committee for evaluation and recommendation before it renders a decision thereon. When the matter is referred to a Sign Advisory Committee, the board shall consider; but is not bound to accept, the recommendation of the committee.

**105.4.4 Composition of the committee.** The board shall select five persons from the Sign Advisory Committee member list to serve on a committee. The committee shall be composed of one member from each of the following interests:

1. One member of or designated by the Board of Building and Safety Commissioners;
2. One member of or designated by the City Planning Commission; and

3. Three public members, one each from the following interests: architecture, sign industry and community groups.

**105.4.5 Compensation of members.** Each member of the committee who is in actual attendance at a meeting requested by the board shall be compensated at the rate of \$50.00 for each four hours or fraction thereof of service. However, in no case shall the compensation of the committee members exceed the fee paid by the applicant under Section 105.4.7.

**105.4.6 Self-insurance by the city for committee members.** The provisions of Sections 11.36 through 11.44, inclusive, of the *Los Angeles Administrative Code* shall apply to each Sign Advisory Committee member while the member is acting as such, and committee members shall be deemed to be fully covered by the provisions of said sections even though each committee member is retained as an independent person and not as an officer or employee of the city.

**105.4.7 Fees.** When a matter is referred to the committee as provided in this section, the applicant in said matter shall pay a referral fee of \$300.00.

**105.5 Disabled access appeals commission.**

**105.5.1 Creation of the commission.** There is hereby established a commission known as the Disabled Access Appeals Commission.

**105.5.2 Membership of the commission.** The Disabled Access Appeals Commission shall be composed of five qualified persons. Two members of the commission shall be physically disabled persons, and two members shall be persons experienced in construction. The fifth member may be any resident of the City of Los Angeles. Commission members shall be appointed by the Mayor, subject to Council approval, and may be removed by the Mayor. In the case of a vacancy during the term of office of any member, the same shall be filled by appointment by the Mayor for the period of the unexpired term subject to the approval of the council by a majority vote. The members of the commission shall be exempt from all civil service provisions.

**105.5.3 Compensation and term of office.** Each member of the commission shall be paid \$50.00 per meeting attended, but not to exceed \$250.00 in any one calendar month.

The term of office of the members of the commission shall be five years beginning with the first day of July of the respective years, except that the terms of office of the original five members of the commission appointed pursuant to this subsection shall be such that one term shall expire on the first June 30, one term shall expire on the second June 30, one term shall expire on the third June 30, one term shall expire on the fourth June 30, and one term shall expire on the fifth June 30 next following the effective date of the appointment of the original five members. Thereafter, the terms of the succeeding members shall be so designated that the term of office of one member shall expire each year. The period of term of each member shall be designated in the appointment.

Each member of the commission shall have the power to administer oaths.



**105.5.5.6 Additional authority.** In considering appeals, the commission may exercise the following powers:

1. To appoint one or more hearing officers to conduct hearings and make recommendations to the same extent and in the same manner as the Superintendent of Building acting pursuant to Section 98.0602 of the *Los Angeles Municipal Code*.
2. To request the attendance of witnesses and the production of evidence before it.
3. To request the city attorney, or an assistant or deputy designated by the city attorney to appear at any hearing before the commission.
4. To adopt rules regarding the filing of appeals, the conduct of its hearings and any other procedural rules in keeping with the provisions of this Chapter.

**105.5.5.7 Limitations on jurisdiction.** Notwithstanding any other provision of this Code, the commission's jurisdiction shall not include the right to hear and determine an appeal from a department determination, order or action if such appeal is filed:

1. On or after the date a criminal citation is issued, charging the appellant with a violation of law based on the facts underlying such determination, order or action; or
2. On or after the date a criminal complaint is filed, charging the appellant with a violation of state laws based on such determination, order or action.

Further, the commission's jurisdiction shall not include the right to hear appeals from or otherwise review any action, order or determination of the Board of Building and Safety Commissioners.

**105.6 Administrative penalties for disabled access violations.**

**105.6.1 Order of abatement and notice of proposed penalty.** If the superintendent determines that a person has violated or failed to comply with any requirement of the law relating to access to public accommodations and housing by the physically disabled, then the superintendent may issue an order of abatement and notice of proposed penalty to that person.

The order and notice shall be in writing and shall describe with particularity the nature of the violation, including a reference to the provision of law that has been violated. The order shall fix a reasonable time for correction of the violation, and the notice of proposed penalty shall set forth the amount of the penalty.

The order of abatement and notice of proposed penalty shall be served upon the person either personally, or by deposit in the United States mail in a sealed envelope, postage prepaid to the person's last known address.

The order and notice shall also set forth the person's right to a hearing as described in Section 105.6.2.

**105.6.2 Right to hearing.** Any person served with an order of abatement or notice of proposed penalty, may apply in

writing to the Disabled Access Appeals Commission for a hearing with respect to the violation alleged, the abatement period, and the amount of the penalty. This request shall be filed within 15 days after the date of service.

If the person does not request a hearing within the prescribed time, then the notice of proposed penalty shall be final, and the amount of any penalty included in the notice shall immediately be due and owing to the City of Los Angeles. The city then shall have the right to bring an action in any court of competent jurisdiction to enforce the order and collect the amount of the penalty.

If the Department determines that there has been compliance with the order of abatement within the time for correction, then the Department may rescind the notice of penalty.

**105.6.3 Time of hearing; notice.** If the person requests a hearing, the superintendent shall cause the matter to be set for hearing before the Disabled Access Appeals Commission. The hearing shall be scheduled not later than 30 days after the date of the application for hearing. This time limit may be extended with the mutual consent of the person and the commission. It shall be a defense to the affirmation of any penalty that the person complied with the order of abatement within the time for correction.

The decision of the commission on the order of abatement and notice of proposed penalty shall be final, and the amount of any penalty affirmed by the commission shall immediately be due and owing to the City of Los Angeles. The city then shall have the right to bring an action in any court of competent jurisdiction to enforce the order and collect the amount of penalty.

**105.6.4 Civil penalties.** Any penalty required to be paid under the provisions of this section is a debt owed to the City of Los Angeles. Any person owing a penalty due under the provisions of this section shall be liable in an action brought in the name of the City of Los Angeles in any court of competent jurisdiction for recovery of any such amount.

The conviction of any person for violating any law shall not relieve the person from the obligation to pay any penalty that the person may owe the city, nor shall such payment prevent a prosecution under appropriate provisions of law for any violation of the law. The remedies provided in this section are cumulative. The use of one or more of the remedies prescribed in this section shall not bar the use of any other remedy provided for the enforcement of law.

**105.6.5 Fee schedules.** The Superintendent shall submit a schedule for the assessment of civil penalties under this section to council for the approval by ordinance.

This schedule shall give due consideration to the appropriateness of the penalty with respect to the following factors:

1. The gravity of the violation;
2. The good faith of the violator being charged; and
3. The history of previous violations.

SECTION 106 PERMITS

106.1 Permits required.

106.1.1 Building permits. No person shall erect, construct, alter, repair, demolish, remove or move any building or structure, nor shall any person commence any liquid washing, compressed air cleaning or steam cleaning of exterior surfaces of any building unless said person has obtained a permit from the Department. A separate permit shall be obtained for each separate building or structure except a group of temporary structures erected on one site for a limited period of time be included on one permit.

Where the installation, alteration or repair of ventilation equipment or ductwork is not included within the scope of a valid building permit, a separate building permit shall be obtained for the work.

Sandblasting, liquid washing, compressed air cleaning, steam cleaning of exterior surfaces of buildings adjacent to and within 20 feet (6096 mm) of pedestrian walkways in dedicated streets in the limits of Fire District No. 1 shall be done only between the hours of 11:00 p.m. and 7:00 a.m., or on Sundays.

Where complete plans for a proposed building are filed with the Department and where a foundation only permit is issued with respect thereto in accordance with rules established by the Superintendent of Building pursuant to Section 22.19 of the Los Angeles Administrative Code, a building permit may be issued for the remainder of the building within 1 year after the issuance of the foundation only permit, provided such plans and specifications comply with all applicable Los Angeles Building Code provisions in effect at the time of issuance of such foundation only permit.

106.1.2 Grading permits. No person shall commence or perform any grading, and no person shall import or export any earth materials to or from any grading site, without first having obtained a permit from the Department. No person shall perform any grading within areas designated "hill-side" unless a copy of the permit is in the possession of a responsible person and available at the site for display upon request.

Any grading project involving more than 100 cubic yards (76.5 m³) of excavation and involving an excavation in excess of 5 feet (1524 mm) in vertical depth at its deepest point measured from the original ground surface shall be done by a State of California licensed contractor who is licensed to perform the work described herein.

A separate permit shall be required for each grading site. One permit may include the entire grading operation at that site, however.

Exception: All other provisions of the Code shall apply, but a permit will not be required if the work complies with any one of the following conditions:

- 1. An excavation which (a) is less than 2 feet (610 mm) in depth, or (b) which does not create a cut slope greater than 5 feet (1524 mm) in height and steeper than one unit vertical in two units horizon-

tal (50 percent slope). This exception shall not apply to cut which exceeds 50 cubic yards (38.3 m³) or which changes the existing drainage pattern.

- 2. A fill less than one foot (305 mm) in depth and placed on natural terrain with a slope flatter than one unit vertical in 10 units horizontal (10-percent slope). This exception shall not apply when the fill exceeds 50 cubic yards (38.3 m³) or when the fill changes the existing drainage pattern.
3. Excavations, located in hillside areas, for caissons or piles under buildings or structures authorized by valid building permits.
4. Excavations, not located in hillside areas, for basements, footings, caissons, piles, swimming pools or underground structures which are authorized by valid building permits.
5. Excavations for wells or tunnels or utilities, which do not provide vertical or lateral support for buildings, or adversely impact the safety or stability of private or public properties.

Grading permits may be waived by the Department for excavations under buildings or structures in hillside areas, if the applicant can demonstrate that the site is relatively level, or the excavation is entirely for footings and/or grade beams not exceeding 5 feet (1524 mm) deep.

106.1.3 Temporary permits. Before commencing the construction of any work for temporary use, a building permit authorizing such work shall be obtained from the Department. Such construction shall be occupied or used only for the period set forth on the permit application, but shall not exceed 120 days.

Except for tents and bleachers, application for permit shall be filed at least seven days prior to the construction, erection or operation of any device, structure, or any work regulated by this article for temporary use.

All temporary construction or installations shall be demolished or removed within five days after the expiration of the Certificate of Occupancy. Requests for inspection must be received by the Department at least 2 days prior to public use or occupancy.

106.2 Exceptions. Permit not required for:

- 1. Where the work regulated by this Code is valued at \$500.00 or less, unless it affects the structural stability of a building, or public safety, or is done to make a building conform to the requirements of this Code for a change in use or occupancy.
2. Flag poles and towers not erected upon a building and not more than 15 feet (4572 mm) high. Radio and television antennae towers which do not exceed 45 feet (13716 mm) in height or light standards which do not exceed 30 feet (9144 mm) in height.
3. Construction sheds and sidewalk protection canopies built pursuant to Chapter 33.

- 4. Sandblasting, liquid washing, compressed air cleaning, steam cleaning of buildings outside of Fire Districts No. 1 and also those exterior surfaces of buildings which are located more than 20 feet (6096 mm) from pedestrian walkways in dedicated streets. Painting, papering and similar work, provided that the values thereof shall be included as part of the value of any new construction for which a permit is required by this Code, for the purpose of determining the amount of the fee to be paid for such permit; and provided further that this exception does not include operations such as liquid washing, compressed air cleaning and steam cleaning on the exterior surfaces of buildings adjacent and within 20 feet (6096 mm) of pedestrian walkways in dedicated streets where such operations extend above the first story.
- 5. Platforms, walks and driveways not more than 30 inches (762 mm) above grade and not over any basement or story below.
- 6. Exhibits, booths, partitions and display counters for temporary use not exceeding 30 days in conjunction with an exhibit or show and not exceeding 12 feet (3658 mm) in height above the floor.
- 7. Outdoor tents or cloth structures for temporary use not exceeding 30 days and not exceeding 12 feet (3658 mm) in any dimension, provided such tents are accessory to an indoor or outdoor assembly use on the site.
- 8. Swimming, bathing and wading pools not exceeding 24 inches (610 mm) in depth or having a surface area not exceeding 250 square feet (23.2 m<sup>2</sup>).
- 9. Canopies or awnings located outside of Fire District No. 1 extending not more than 4 feet (1219 mm) from the exterior wall of the building and attached to Group R Occupancies.
- 10. Impact hazard glazing pursuant to Section 2406.7 of this Code.
- 11. Work performed by Certified Licensed Contractors in accordance with Section 108.12.1.
- 12. Any work accomplished under the auspices of and owned and controlled by the United States of America, by the State of California or the Los Angeles County.
- 13. Masonry or concrete fences not over 3½ feet (1067 mm) high, and other fences not over 10 feet (3048 mm) high.
- 14. Tanks for the storage of combustible liquids, if resting upon the surface of the ground and surrounded by an impounding basin conforming to the requirements of Article 7 of Chapter V of the *Los Angeles Municipal Code* (Fire Code).
- 15. Cases, counters and partitions, not over 5 feet 9 inches high (1753 mm).
- 16. Waterproof pointing of joints in masonry or veneer, also cleaning with detergents which are not injurious to clothing or skin of persons and are not removed by liquid washing, provided work is done from safely enclosed scaffolding which will collect any dust, debris or dropped tools and materials in use.

**106.3 Permit applications.**

**106.3.1 Application.** To obtain a permit, the applicant shall file an application on a form furnished by the Department.

One complete application for each permit shall be filed. Every such application shall:

- 1. Identify and describe the work to be covered by the permit for which application is made.
- 2. Describe the land on which the proposed work is to be done by legal description, street address or similar description that will readily identify and definitely locate the proposed building or work.
- 3. Indicate the use or occupancy for which the proposed work is intended.
- 4. Be accompanied by plans, diagrams, computations and specifications and other data as required in Section 106.3.2.
- 5. State the valuation of any new building or structure or any addition, remodeling or alteration to an existing building.
- 6. Be signed by the permittee or an authorized agent.
- 7. Give such other data and information as may be required by the Superintendent of Building.

**106.3.2 Plans and specifications.**

**106.3.2.1 Site plat.** A plat of the site shall be filed with each application for a permit.

**Exception:** The Superintendent of Building may grant the omission of a site plat when the proposed work is of such a nature that no information is needed to determine compliance with all laws relating to the location of buildings or occupancies.

With respect to the site, the plat shall show the boundaries, lot lines, existing and proposed buildings and structures, neighboring public ways, and sufficient dimensions and other data to enable the Department to determine compliance with all laws relating to the location of buildings or occupancies.

**106.3.2.2 Number of sets of plans.** Each application for a permit shall be accompanied by two sets of plans and specifications for plan checking.

The number of sets of plans and specifications submitted with each application for a building permit may comply with the regulations of Sections 107.3.2 and 107.3.3.

**Exception:** The Superintendent of Building may waive the requirement for plans and specifications as required in this article if the superintendent finds that the information on the application is sufficient to show that the work will conform to the provisions of this Code and other relevant laws.

**106.3.2.3 Official stamp.** When the plans and specifications fully comply with the provisions of Section 106.3.3, the Department shall place an official stamp of approval or an approval perforation on each sheet of each set and, upon payment of the permit fee, shall issue one set to the applicant.



by the owner or owners and filed with the County Recorder; or

- C. The permit is for four or fewer dwelling units in a residential zone, or for a structure that will not result in the discharge of wastewater.
- 2. The Department shall have the authority to withhold permits where the proposed development is located in an area subject to slides or unstable soil which may have an adverse effect on the proposed development or access thereto, as determined by the Department. If the apparent safety of the proposed development can be verified pursuant to the provisions of Sections 7016.4.2 and 7016.4.3 of this Code, the Department shall issue a permit upon receipt of a sworn affidavit which has been recorded by the County Recorder, stating that the applicant is fully aware that the proposed development is located in an area subject to slides or unstable soil which may have an adverse effect on the proposed development or access thereto.
- 3. The Department shall have the authority to withhold a building permit where the proposed building site is an area subject to inundation, as determined by the Department. If it can be shown by authentic past records that any possible inundation is not likely to be of such extent as to be an immediate hazard to occupancy of the proposed building, the Department shall issue a building permit upon receipt of a sworn affidavit which has been recorded by the County Recorder stating that said applicant is fully aware of the department's finding that the structure is an area subject to inundation.
- 4. The Department shall have the authority to withhold permits on projects located within a Special (Fault) Studies Zone established under Chapter 7.5, Division 2, of the *California Public Resources Code*. Permits may be issued if it can be demonstrated through accepted geologic seismic studies that the proposed structure will be located in a safe manner and not over or astraddle the trace of an active fault. Acceptable geologic seismic studies shall meet the criteria as set forth in rules and regulations established by the Superintendent of Building to ensure such studies are based on sufficient geologic data to determine the location or nonexistence of the active fault trace on a site. Prior to approval of a project, a geologic report defining and delineating any hazard of surface fault rupture shall be required. If the city finds that no undue hazard of this kind exists, the geologic report on such hazard may be waived, with approval of the state geologist.
- 5. The Department shall have the authority to withhold a demolition or relocation permit for a residential building composed of two or more

residential rental units, under the following circumstances:

- A. When the applicant states that the purpose for demolition or relocation is to construct a condominium, stock cooperative or community apartment project, permits shall be withheld until all necessary tentative tract or preliminary parcel maps for such new subdivision have been approved by the city.
- B. When the applicant states that the demolition or relocation is not for the purpose of constructing a condominium, stock cooperative or community apartment project, permits shall be withheld until the Department receives a sworn affidavit from the real property owner, which has been recorded by the county recorder, stating that said owner waives the right to construct on the subject lot, a condominium, stock cooperative or community apartment project for a period of 10 years from the date of the demolition or relocation, and that such waiver will bind any purchaser, encumbrancer, assignee, devisee and transferee of said property during said 10 year period.
- C. This Exception 5 shall not apply if the building is to be demolished and is:
  - (i) Constructed of unreinforced masonry construction and built pursuant to a building permit issued prior to October 1, 1933, or
  - (ii) To be demolished pursuant to a demolition order issued by the Department under authority set forth in Chapter 89 of this Code.
- D. This Exception 5 shall not apply if the applicant demonstrates to the satisfaction of the Department that the site will be developed with housing for low to moderate income households, which housing is to be developed, constructed or acquired with federal, state or local government financial assistance.
- E. This Exception 5 shall not apply to two family dwellings or to apartment houses and apartment hotels containing three dwelling units, provided that at least one dwelling unit in each such building is occupied by a record owner of the property.
- 6. The Department shall have the authority to withhold permits on projects located within a Methane Zone or Methane Buffer Zone established under Sections 7101 *et seq.* of this Code. Permits may be issued upon submittal of detailed plans that show adequate protection against flammable gas incursion by providing the installation of suitable methane mitigation systems.



control stormwater pollution in accordance with the "Development Best Management Practices Handbook, Part B Planning Activities" adopted by the Board of Public Works as authorized by Section 64.72 of the Los Angeles Municipal Code; and

B. The Bureau of Sanitation of the Department of Public Works receives a Covenant and Agreement, signed by the owner and recorded with the Los Angeles County Recorder, declaring that the best management practices necessary to control stormwater pollution shall be installed and/or constructed and maintained in proper working condition at all times; and

C. The applicant submits to the Bureau of Sanitation of the Department of Public Works, a set of plans and specifications showing compliance with the Standard Urban Stormwater Mitigation Plan or Site Specific Mitigation Plan.

106.4.2 Retention and maintenance of approved plans.

106.4.2.1 Retention of plans. The duplicate plans and specifications of every building or structure shall be stamped and retained by the Department during the life of such building.

Exception: Plans for the following need not be maintained, except where required by the Department:

- 1. Single or multiple dwellings in nonhillside areas which are not part of a common interest development (as defined in Section 1351(c) of the Civil Code of California), and not more than two stories and basement in height.
- 2. Garages and other structures appurtenant to buildings described in Item 1 of this exception.
- 3. Farm or ranch buildings.
- 4. Any one story building where the span between bearing walls does not exceed 25 feet (7620 mm). This exception does not, however, apply to a steel frame or concrete building.
- 5. Alterations to commercial buildings, apartments and hotels which do not require the signature of a licensed civil or structural engineer or architect.

106.4.2.2 Inspection and reproduction of retained plans.

106.4.2.2.1 Inspection of plans. The copy of the approved building plans maintained by the Department as provided by Section 106.4.2.1 shall be available for inspection only on the premises of the Department.

Exception: Plans or portion of plans for banks, other financial institutions or public utilities which are maintained by the Department may not be inspected without written permission from the owner of the building.

106.4.2.2.2 Reproduction of plans. Plans maintained by the Department under Subdivision 1 of this subsection may not be duplicated in whole or in part except with the written permission of the certified, licensed or registered professional or his or her successor, if any, who signed the original documents, and the written permission of the original or current owner of the building, or, if the building is part of a common interest development, with the written permission of the board of directors or governing body of the association established to manage the common interest development; or by order of a proper court. In implementing this provision, the Department shall comply with the requirements of Section 19851 of the Health and Safety Code.

The Department shall also furnish the form of an affidavit to be completed and signed by the person requesting to duplicate the official copy of the plans, which contains provisions stating all of the following:

- 1. That the copy of the plans shall only be used for the maintenance, operation, and use of the building.
- 2. That drawings are instruments of professional service and are incomplete without the interpretation of the certified, licensed, or registered professional of record.
- 3. Section 5536.25(a) of the Business and Professions Code states that a licensed architect who signs plans, specifications, reports, or documents shall not be responsible for damage caused by subsequent changes to, or use of, those plans, specifications, reports, or documents where the subsequent changes or uses, including changes or uses made by state or local governmental agencies, are not authorized or approved by the licensed architect who originally signed the plans, specifications, reports, or documents, provided that the architectural service rendered by the architect who signed the plans, specifications, reports, or documents was not also a proximate cause of the damage.

Grading plans which are on file with the Department are public records and may be duplicated.

The fees specified in the following provisions 1 or 2 shall be paid by the person requesting duplication of plans:

- 1. Building plans that have not been microfilmed and are authorized for reproduction, and grading plans that are to be duplicated by other than City services will be released only to a bonded duplicating service which has posted a bond for the benefit of the City of Los Angeles in an amount at least equal to the value of the plans.

The cost of duplicating the plans shall be paid directly to the duplicating service by the persons requesting duplication. That person shall pay a service fee of \$15.00 for each set of









LA construction or work for which the permit is issued is  
 LA \$50,000 or greater, as determined by the Department, the  
 LA Department shall collect a fire hydrant fee. The amount of  
 LA this fee shall be equal to  $\frac{22}{100}$  of 1 percent of the total value  
 LA of all construction or work for which the permit is issued. If  
 LA the applicant for a building permit subject to the fire hydrant  
 LA fee pays such fee under protest or refuses to pay such fee, the  
 LA Department may issue the permit, but shall affix to the permit  
 LA a Fire Hydrant Fee Notice to read as follows:

**FIRE HYDRANT FEE NOTICE:**

The City of Los Angeles may amend the Fire Hydrant Fee Ordinance.

The owner of the project designated in this permit shall be obligated to pay to the Department a fire hydrant fee in the amount to be calculated pursuant to any amendment to the fire hydrant fee ordinance. This fee will be used to provide adequate fire-safety facilities and services for new development.

**Exception:** A fire hydrant fee shall not apply to any permit for demolition of a building or structure.

The Department of Building and Safety shall cause all money collected pursuant to this section to be deposited into the Fire Hydrant Installation and Main Replacement Fund described in Section 5.114 of the *Los Angeles Administrative Code* for purposes of disbursement as permitted therein; except that \$5.00 from each fire hydrant fee shall be deposited in the general fund pursuant to Section 5.114 of the *Los Angeles Administrative Code*.

**107.4.5 Metal bars, grilles, grates, security roll-down shutters and similar devices.** The permit fee for the installation of devices for which a permit is required by Section 6304.3 of this Code shall be \$25.00 for each affected dwelling unit, efficiency dwelling unit, light housekeeping room or guest room in a residential building.

**Exceptions:**

1. The Department shall issue a permit without collection of a fee if it determines that the following conditions are met:
  - A. The metal bars, grilles, grates, security roll down shutters and similar devices were installed prior to June 3, 1986, and
  - B. The dwelling unit is in full compliance with Section 310.4 when the first inspection is conducted pursuant to Section 310.4.
2. The Department shall issue a permit without the collection of a fee for all eligible lower income households, as defined by Section 50079.5 of the *California Health and Safety Code*. The Department shall determine whether the applicant meets the applicable criteria for eligibility.

**107.4.6 Arts development fee.**

**107.4.6.1 Arts fee.** The owner of a development project for a commercial or industrial building shall be required

to pay an arts fee in accordance with the requirements of this section.

**107.4.6.2 Fee amount.** The Department of Building and Safety shall collect an arts fee in the following amount:

1. **Office or research and development.** For an office or research and development building, the arts fee shall be \$1.57 per square foot.
2. **Retail.** All retail establishments shall pay an arts fee of \$1.31 per square foot.
3. **Manufacturing.** For a manufacturing building, the arts fee shall be \$0.51 per square foot.
4. **Warehouse.** For a warehouse building, the arts fee shall be \$0.39 per square foot.
5. **Hotel.** For a hotel building, the arts fee shall be \$0.52 per square foot.

In no event shall the required arts fee exceed either \$1.57 per gross square foot of any structure authorized by the permit or 1 percent of the valuation of the project designated on the permit, whichever is lower, as determined by the Department of Building and Safety. Where there are combined uses within a development project or portion thereof, the arts fee shall be the sum of the fee requirements of the various uses listed above. The Cultural Affairs Department shall revise the arts fee annually by an amount equal to the Consumer Price Index for Los Angeles as published by the United States Department of Labor. The revised amount shall be submitted to Council for adoption by ordinance.

**107.4.6.3 Time of collection.** Except as provided in Section 107.4.6, the Department of Building and Safety shall collect an arts fee before issuance of a building permit for commercial and industrial buildings required by this code.

**107.4.6.4 Exceptions.** The arts fee required by Section 107.4.6 shall not be assessed for the following projects or portions thereof:

1. Any project for which the total value of all construction or work for which the permit is issued is \$500,000 or less.
2. The repair, renovation or rehabilitation of a building or structure that does not alter the size or occupancy load of the building.
3. The repair, renovation or rehabilitation of a building or structure for the installation of fire sprinklers pursuant to Chapter 9.
4. The repair, renovation or rehabilitation of a building or structure that has been made to comply with Chapter 88 (*Earthquake Hazard Reduction in Existing Buildings*) subsequent to a citation of noncompliance with Chapter 88.
5. The repair, renovation or rehabilitation of a building or structure for any handicapped facilities pursuant to this code.

6. All residential buildings or portion thereof. This exception does not include hotels.

**107.4.6.5 Use of arts fees acquired pursuant to Section 107.4.6.** Any arts fee collected by the Department of Building and Safety shall be deposited in the Arts Development Fee Trust Fund. Any fee paid into this fund may be used only for the purpose of providing cultural and artistic facilities, services and community amenities which will be available to the development project and its future employees. Any cultural and artistic facilities, services and community amenities provided shall comply with the principles and standards set forth in the Cultural Master Plan when adopted.

At or about the time of collection of any fee imposed by this section, the Cultural Affairs Department shall identify the use to which the arts fee is to be put, and if the use is financing public facilities, the facilities shall be identified.

**107.4.6.6 Projects covered by Ordinance 164,243.** In 1988, the City enacted Ordinance 164,243 which states in part:

“This ordinance is an interim measure while the City of Los Angeles is giving consideration to the enactment of an Arts Development Fee Ordinance. The owners of a development project shall be obligated to pay an Arts Development Fee if such fee is adopted in the future by the city. The fee will not exceed 1 percent of the total value of work and construction authorized by the building permit issued to a development project. This fee would be used to provide adequate cultural and artistic facilities, services and community amenities for the project.”

By enacting Section 107.4.6, the City has adopted the Arts Development Fee referred to by Ordinance 164,243. Accordingly, an arts fee shall be paid to the City of Los Angeles by owners of development projects which received building permits between and including January 15, 1989, and the effective date of this section. This arts fee described in this section shall be paid within 60 days of receipt of a request for payment of an arts fee. All exceptions listed in Section 107.4.6.4 shall apply to owners of development projects subject to Ordinance 164,243.

The Office of Finance shall bill and collect the Arts Development Fee owed by those persons to whom notice was given pursuant to this paragraph for the period January 15, 1989, through May 7, 1991. The amount due shall be paid in full within 60 days of the billing date unless an agreement to pay in installments pursuant to this paragraph is approved by the Office of Finance. Persons indebted to the City of Los Angeles for Arts Development Fees may, upon approval by the Office of Finance, enter into an agreement with the City of Los Angeles to pay such fees in installments over a period not to exceed one year. The Office of Finance shall collect a service fee of \$10.00 on each monthly installment to recover the cost to the city of processing installment payments. The Cultural Affairs Department is hereby authorized to negoti-

ate and accept payment in kind for the Arts Development Fee owed by those persons to whom notice was given pursuant to this paragraph for the period January 15, 1989, through May 7, 1991. The Cultural Affairs Department shall provide notice to the Office of Finance of the name of the person on whose account such in kind payment was accepted, and whether the in kind payment constitutes payment in full or only a specified portion of the Arts Development Fee owed.

The Office of Finance is authorized to record payment in full, without further notification to the person billed, for cash or in kind Arts Development Fee payments received that are within \$3.00 of the amount owed.

**107.4.7 Affordable housing mitigation fee notice.** Before issuance of a building permit for any project or structure, the Department of Building and Safety shall affix to the permit an Affordable Housing Mitigation Fee Notice to read as follows:

**Affordable housing mitigation fee notice:** The City of Los Angeles is considering the enactment of an Affordable Housing Mitigation Fee Ordinance. The owner of the project designated in this permit shall be obligated to comply with an Affordable Housing Mitigation Fee Ordinance, if such an ordinance is adopted in the future by the city. In no event shall the required fee exceed either \$5.00 per square foot of the structure(s) authorized by the permit or 3.5 percent of the valuation of the project designated on the permit, as determined by the Department of Building and Safety, whichever is lower. This fee shall be used to mitigate any affordable housing needs created by the project.

**Exception:** The notice required by this section shall not be affixed to building permits for the following projects or portion thereof:

1. Any project for which a building permit is issued with less than 40,000 square feet (3716 m<sup>2</sup>) of new floor area as determined by the Department of Building and Safety;
2. Any project located within the boundaries of an enterprise zone designated in Section 12.04 of the *Los Angeles Municipal Code*;
3. Any project developed by nonprofit entities such as hospitals, schools, religious institutions, museums, day care providers and other similar organizations, where the construction is directly related to the nonprofit purpose of the organization as determined by the Community Development Department. This exception shall not apply to nonprofit development of leasable commercial office space;
4. Any project or portion of a project for industrial, warehouse development or parking structures as defined by the *Los Angeles Municipal Code* and determined by the Department of Building and Safety;



**SECTION 108  
INSPECTION**

**108.1 General.** All construction or work for which a permit is required shall be subject to inspection by authorized employees of the Department, and certain types of construction shall have continuous inspection by Registered Deputy Inspectors as specified in Section 1704 of this Code. Prior to the issuance of a Certificate of Occupancy as specified in Section 109, a final inspection shall be made by the Department of all construction or work for which a permit has been issued.

**Exceptions:**

1. When a permit is obtained for reroofing in compliance with Section 1510 of this code, the Department may waive inspections provided the following persons certify that the materials used comply with Section 1510 of this Code and work is performed by:
  - A. A licensed contractor, or
  - B. The owner of the property who either did the work or used employees of the owner to do the work pursuant to Section 7044 of the *Business and Professions Code*.
2. When a permit is obtained for any work performed by certified licensed contractors complying with the requirements of Section 108.12.

**108.2 Inspection record card.** With each permit issued, the Department shall furnish a card to the applicant showing the location and nature of the work to be done and the number of the permit.

The permit card shall be posted in a place designated by the Superintendent of Building.

**108.3 Inspection requests.** It shall be the duty of the person doing the work authorized by a permit to notify the Superintendent of Building that such work is ready for inspection. The Superintendent of Building may require that every request for inspection be filed at least one working day before such inspection is desired. Such request may be in writing or by telephone at the option of the Superintendent of Building.

It shall be the duty of the person requesting any inspections required by this Code to provide access to and means for inspection of such work.

**108.4 Approval required.** Work shall not be done beyond the point indicated in each successive inspection without first obtaining the approval of the Superintendent of Building. The Superintendent of Building, upon notification, shall make the requested inspections and shall either indicate that portion of the construction is satisfactory as completed or shall notify the permit holder or an agent of the permit holder wherein the same fails to comply with this Code. Any portions which do not comply shall be corrected and such portion shall not be covered or concealed until authorized by the Superintendent of Building.

There shall be a final inspection and approval of all buildings and structures when completed and ready for occupancy and use.

**108.5 Required inspections.** The permittee or his agent shall notify the Department when the building or portion thereof is ready for each of the following inspections:

1. **Foundations.** When the excavation for footings is complete and footing forms and required reinforcing steel are in place, but before any concrete is placed.
2. **Wood framing, ventilation equipment installation.** When all roof, walls and floor framing, fire stopping and bracing are complete and all pipes, chimneys, vents and ductwork are in place, but before any of this work is covered.
3. **Wall covering.** When the backing and lath or drywall are in place ready for plaster, stucco or taping.
4. **Reinforced concrete.** When forms and reinforcing steel are in place ready for concrete.
5. **Reinforced masonry.** In grouted masonry when vertical reinforcing steel is in place and other reinforcing steel distributed and ready for placing, but before any units are laid up.
6. **Structural steel.** When structural steel members are in place and required connections are complete, but before concealing any members or connection.
7. **Final.** When the construction or work is completed and the structure ready for occupancy, but before being occupied.

The permittee or the permittee's agent shall notify the Department on the day prior to the day on which inspection is desired.

The Department shall approve that portion of the work inspected or notify the responsible person if the work fails to comply with the law. Any portions which do not comply with the law shall be corrected and no portion shall be covered or concealed with additional work until approved.

When any of the above required inspections have been made and that portion of the work approved, the inspector shall so record on the permit card posted on the job.

**108.6 Other inspections.** In addition to the called inspections specified above, the Department may make any other inspections of any construction work to ascertain compliance with the provisions of this Code and other laws which the Department enforces.

**108.7 Reinspections.** Fees for additional inspections shall be assessed in accordance with Section 98.0412 of the *Los Angeles Municipal Code*.

**108.8 Surveys.** In the absence of any designation of the proper location of the lot on which a building is to be erected, for which building a permit has been issued, the Department may require the owner to have the lot surveyed and staked by a registered land surveyor or registered civil engineer so that the proper location of the building on the lot may be determined.

**108.9 Inspection of excavation and fills.** The permittee or the permittee's agent shall notify the Department when the grading operation is ready for each of the following inspections:

1. **Initial meeting/inspection.** When the permittee is ready to begin work, but before any grading operation or brushing is started, a meeting shall be held at the project site with the contractor and the inspectors to discuss the approved plans, soil reports and the sequence of the grading operations.

- 2. **Toe inspection.** After the natural ground is exposed and prepared to receive fill, but before any fill is placed.
- 3. **Excavation inspection.** After the excavation is started, but before the vertical depth of the excavation exceeds 10 feet.
- 4. **Fill inspection.** After the fill emplacement is started, but before the vertical height of the lifts exceeds 10 feet.
- 5. **Drainage device inspection.** After forms and pipe are in place, but before any concrete is placed.
- 6. **Rough grading.** When all rough grading has been completed. This inspection may be called for at the completion of the rough grading without the necessity of the Department having previously reviewed and approved the reports.
- 7. **Final.** When all work, including installation of all drainage structures and other protective devices, has been completed and the as-graded plan and required reports have been submitted.

The Department shall approve the work inspected or notify the permittee or owner wherein the work fails to comply with the law. Any portion of the work which does not comply with the law shall be corrected.

**108.10 Revised grading plan.** If the inspector finds that the soil or other conditions are not as stated in the application for a grading permit, the inspector may refuse to approve further work until a revised grading plan is obtained which conforms to the existing conditions.

**108.11 Approved fabricators.** The inspections provided for in this section shall not be required for construction or installation work done on the premises of a Type II fabricator to whom an approval has been issued pursuant to the provisions of Division C of Article 6 of Chapter IX of the *Los Angeles Municipal Code*.

**108.12 Inspections by certified licensed contractors of work performed on detached single-family dwellings.**

**108.12.1** In lieu of the inspections made by employees of the Department, as specified in Section 108, a certified licensed contractor, employed by the owner, upon notification to the Department prior to the commencement of work, may install, inspect and certify the following work as being performed in compliance with the provisions of the *Los Angeles Municipal Code* for a detached single-family dwelling:

- 1. The replacement of defective water heaters with one of the equivalent gallonage, Btu rating and vent capacity when the vent does not require relocation or replacement.
- 2. The replacement of defective forced-air units with one of equivalent size, Btu rating and vent capacity when the vent does not require relocation or replacement.
- 3. The replacement of defective air-conditioning units with one of equivalent size and Btu rating.
- 4. The replacement of plumbing fixtures and solar panels with equal kind and quality.

- 5. The replacement of defective domestic water piping within a dwelling, with piping of equivalent size and quality when the installation does not exceed 50 feet in length.
- 6. The replacement of defective metallic water service piping with piping of equivalent size, quality and conductivity.
- 7. The removing of existing roofing and the replacement of roofing materials which is in compliance with Part II of Division 15 (FIX in here and Ordinance) and which does not require any alteration to the roof support system.
- 8. The replacement of defective smoke detectors.
- 9. The replacement of shower pans with the same size and capacity.
- 10. The installation or replacement of masonry and concrete fences not exceeding 6 feet (1829 mm) in height.

**108.12.2** The employment of a certified licensed contractor by the owner on any work shall not prohibit the Department from performing inspections of any work described in Section 108.12.1. The called inspections required by Section 108.5 may be delegated to the certified licensed contractor performing the work by the Superintendent of Building.

**108.12.3 Department inspection.** The Department may allow the use of the certification by a certified licensed contractor in lieu of inspections made by employees of the Department provided there is compliance with all of the following:

- 1. The certified licensed contractor has a valid Certificate of Registration obtained in accordance with Section 1705 of this Code.
- 2. The certified licensed contractor has filed with the Department a Certificate of Compliance for each installation.

The Certificate of Compliance shall be on a form provided by the Department and shall be signed by the property owner and the certified licensed contractor. The Department may require that the certified licensed contractor affix a certification label obtained from the Department on certain types of installations to identify the work certified;

The Certificate of Compliance shall describe the work performed and state that the certified licensed contractor warrants, from personal knowledge, that the materials installed and the work performed are in compliance with approved manufacturer's instructions, specifications and applicable requirements of the *Los Angeles Municipal Code*.

For the work described in Items 1, 2 and 3 of Section 108.12.1, the term "**personal knowledge**" as used in the Certificate of Compliance means that the certified licensed contractor has actual personal knowledge of the facts certified to, or knowledge acquired from an employee of the certified licensed contractor, which employee provided continuous

observation of the work or installation at the site in all stages of its progress.

For work set forth in Items 4, 5 and 6 of Section 108.12.1, the term "personal knowledge" means the certified licensed contractor has actual personal knowledge or knowledge acquired from another certified licensed contractor or a qualified installer.

- 3. The Certificate of Compliance processing fee has been paid in accordance with Section 98.0417 of the *Los Angeles Municipal Code*.
- 4. The certified licensed contractor has filed the application for a Certificate of Compliance with the Department within 15 days after completion of the installation.

The certified licensed contractor has submitted a report to the Department describing the work the certified licensed contractor performed and declaring that the work complies with all applicable provisions of the *Los Angeles Municipal Code*. The report shall be made on forms supplied by the Department and shall be filed in the records of the Department.

**108.12.4** The certified licensed contractor shall notify the Department of the certified licensed contractor's commencement of work for which the certified licensed contractor has been engaged. This notification shall be made no later than the last business day preceding the commencement of work.

The certified licensed contractor shall inspect all materials to be used or concealed within such work.

While engaged in the work, the certified licensed contractor shall not undertake or engage in any other task or occupation which will interfere with the proper performance of the certified licensed contractor's duties of inspection. The certified licensed contractor shall report all violations of this Code which have occurred relating to the construction work to the Superintendent of Building, and such other information relating to the installation work as requested by the Superintendent of Building.

The Department may refuse to issue a Certificate of Compliance if it finds that the contractor has failed to comply with any of these requirements.

**108.13** Whenever the Department determines by inspection that construction or grading activities create excessive dust emissions where the dust remains visible in the atmosphere beyond the property line of the emission source or constitutes a nuisance or other hazard, the Department may order that such activity cease or be controlled through watering practices using reclaimed water if available, or by other means, to the satisfaction of the Department. The Department may order the owner of the property to employ a person, subject to Department approval, to monitor the watering practices.

**SECTION 109  
CERTIFICATE OF OCCUPANCY**

**109.1 Certificate required.** In order to safeguard life and limb, health, property and public welfare, every building or structure

and every trailer park shall conform to the construction requirements for the subgroup occupancy to be housed therein, or for the use to which the building or structure or trailer park is to be put, as set forth in this article.

No building or structure or portion thereof and no trailer park or portion thereof shall be used or occupied until a Certificate of Occupancy has been issued thereof.

**Exceptions:**

- 1. Unless it is specifically required by other provisions of this article, no existing building or portion thereof shall require a Certificate of Occupancy, provided:
  - A. The occupancy housed therein is the same for which the original building permit was issued; and
  - B. The use of a building or portion thereof housing a Group A or E occupancy and constructed prior to 1934 has not been discontinued for a period of more than 6 months.
- 2. No structure, the architecture of which inhibits occupancy, shall require a Certificate of Occupancy.

**109.2 Change of occupancy.** See Chapter 82.

**109.3 Issuance of certificates.** When required by Section 109.1, after the receipt and approval of the final inspection report from each of the divisions of the Department, and after the city engineer has reported that all required public improvements have been completed, the Superintendent of Building shall issue a Certificate of Occupancy, without charge, to the owner of the building. Duplicates of the certificate may be secured upon the payment of the duplication fee required by ordinance.

When a Certificate of Occupancy is issued, it shall supersede every certificate previously issued for that portion of the building described thereon.

**109.4 Contents of certificate.** Each certificate shall contain the following:

- 1. The building permit numbers.
- 2. The address of the building.
- 3. The name and address of the owner.
- 4. A description of that portion of the building for which the certificate is issued.
- 5. For Group A and E occupancies, the maximum occupant load allowed.
- 6. A statement that the described portion of the building complies with the construction requirements of the *Los Angeles Municipal Code* for the group of occupancies in which the proposed occupancy is classified.
- 7. A statement that establishes relevant requirements of the *Los Angeles Zoning Code*.
- 8. The signature of the Superintendent of Building or an authorized representative of the Superintendent of Building.

**109.5 Temporary certificates.** Notwithstanding the provisions of Section 109.4, if the Superintendent of Building finds that no substantial hazard will result from the occupancy of any building, or portion thereof, before the same is completed, and

LA satisfactory evidence is submitted that the work could not have  
 LA been completed prior to the time such occupancy is desired  
 LA because of its magnitude or because of unusual construction  
 LA difficulties, and the city engineer has reported that all required  
 LA public improvements have been completed, the Superintendent  
 LA of Building may issue a temporary Certificate of Occupancy  
 LA for any building or portion thereof. The Superintendent of  
 LA Building may issue a temporary Certificate of Occupancy not-  
 LA withstanding the fact that all required public improvements  
 LA have not been completed, if the superintendent finds that the  
 LA failure to complete the public improvements was due to cir-  
 LA cumstances over which the person applying for the Certificate  
 LA of Occupancy had no control.

LA In addition, the Superintendent of Building may issue a tem-  
 LA porary Certificate of Occupancy for an existing building, or  
 LA portion thereof, provided no substantial hazard will result and  
 LA satisfactory evidence is submitted justifying the need for such  
 LA temporary occupancy. The Department shall collect a fee for  
 LA each temporary Certificate of Occupancy. The amount of the  
 LA fee shall be \$100.00 plus an additional fee as shown in Table  
 LA 1-B of this Code.

LA Such temporary Certificate of Occupancy shall be valid for a  
 LA period not to exceed 6 months. The Department may issue  
 LA additional temporary Certificates of Occupancy. After the  
 LA expiration of a temporary Certificate of Occupancy, the build-  
 LA ing or structure shall require a Certificate of Occupancy in  
 LA accordance with other provisions of this section. Duplicates of  
 LA the certificate or temporary certificate may be secured upon the  
 LA payment of the duplication fee required by ordinance.

LA 109.6 Revocation. The Superintendent of Building shall have  
 LA the authority, in writing, to suspend or revoke a Certificate of  
 LA Occupancy or Temporary Certificate of Occupancy issued  
 LA under the provisions of this Code whenever the certificate is  
 LA issued in error, or on the basis of incorrect information sup-  
 LA plied, or when it is determined that the building or structure or  
 LA portion of the building or structure is in violation of any ordi-  
 LA nance or regulation or any of the provisions of this Code.

LA 109.7 Notwithstanding the provisions of Section 109.4, when-  
 LA ever public improvements are required in connection with the  
 LA replacement or restoration of a building destroyed or damaged  
 LA during the local emergency declared by the Mayor in April,  
 LA 1992, the completion of those public improvements may be  
 LA deferred until June 1, 1995, and a temporary Certificate of  
 LA Occupancy may issue for the new or restored building or a por-  
 LA tion thereof prior to the completion of the public improve-  
 LA ments. The temporary Certificate of Occupancy shall issue  
 LA only if the Superintendent of Building finds that no substantial  
 LA hazard will result from the occupancy of the building or portion  
 LA thereof prior to the completion of the public improvements.  
 LA This Section 109.7 does not affect any requirement of a bond or  
 LA other security to warrant the proper completion of the required  
 LA public improvements.

LA 109.8 Fire department notification. For each Group A and E  
 LA occupancy, a copy of the certificate shall be forwarded to the  
 LA Los Angeles Fire Department.

**SECTION 110  
 RESPONSIBILITY OF PERMITTEE**

Building permits shall be presumed to incorporate the provi-  
 sion that the applicant, the applicant's agent, employees or con-  
 tractors shall carry out the proposed work in accordance with  
 the approved plans and with all requirements of this Code and  
 any other laws or regulations applicable thereto, whether speci-  
 fied or not.

No approval shall relieve or exonerate any person from the  
 responsibility of complying with the provisions and intent of  
 this Code.

**SECTION 111  
 CODE REVISION**

111.1 The Superintendent of Building shall determine what  
 changes in the Code are necessary to more adequately protect  
 the public health, safety and welfare, based on studies of the  
 following:

1. Schedules of requests for deviation from the provisions  
 of the Code and for approval of materials and methods of  
 construction;
2. Schedules of violations of the provisions of this Code;
3. Schedules of convictions and nonconvictions, and the  
 reasons for nonconvictions, by the city attorney's office;
4. Changes and improvements in materials, methods of  
 construction and design; and
5. Investigations of fire and structural damage to buildings.

111.2 Upon request, the board shall consult with and provide  
 advice to the Superintendent of Building on any matter relating  
 to proposed changes of this Code.

**SECTION 112  
 GRADING CERTIFICATE**

112.1 Certificate required. No owner of property or other per-  
 son or agent in control of property shall permit or allow any  
 grading made after October 17, 1952, and not expressly within  
 the exceptions set forth in Section 106, to exist on such prop-  
 erty unless a Grading Certificate has been issued therefor or  
 unless the grading is being carried on under the authorization  
 of a valid grading permit.

112.2 Issuance of certificate. If upon final inspection of any  
 excavation or fill it is found that the work authorized by the  
 grading permit has been satisfactorily completed in accordance  
 with the requirements of this Code, the Department shall issue  
 to the owner a Grading Certificate covering the work. On the  
 owner's request a separate certificate will be issued for each lot  
 for which building permits have been issued or applied for  
 prior to the completion of the grading.



ADMINISTRATION

**TABLE 1-C  
REPORT FEES** <sup>a,d,c,d,e</sup>

REPORT	FEES
Foundation investigation <sup>f</sup>	\$240.00
Soils engineering or geology report <sup>g</sup> For the first lot plus \$2.80 for each additional lot or for the first acre plus \$14.00 for each additional acre or fraction thereof, whichever is the greater fee.	\$240.00
Seismology report	\$240.00
Supplemental fee For each supplemental foundation investigation, soils engineering, geology or seismology report.	\$120.00

- a. Combined reports when submitted together may have the total fee reduced by \$70.00.
- b. Report fees for minor work (structures, additions, slope repairs or grading) may be reduced to one half of the calculated fee, as determined by the Department.
- c. Fees are based on single projects and contiguous properties.
- d. Additional fees for division of land review shall be collected as required by Section 107.8.
- e. The fees in this table shall be increased by 50 percent, when the reports are reviewed during off- hours at the request of the applicant and acceptance by the Department.
- f. May include soil period evaluation.
- g. May include special studies zones evaluation.

**TABLE 1-D  
GRADING PERMIT FEES**

GRADING	FEE
100 cubic yards or less	\$160.00
101 - 1,000 cubic yards	\$160.00 for the first 100 cubic yards, plus \$135.00 for each additional 100 cubic yards or fraction thereof.
1,001 - 10,000 cubic yards	\$1,375.00 for the first 1,000 cubic yards, plus \$150.00 for each additional 1,000 cubic yards or fraction thereof.
10,001 - 100,000 cubic yards	\$2,725.00 for the first 10,000 cubic yards, plus \$500.00 for each additional 10,000 cubic yards or fraction thereof.
100,001 cubic yards or more	\$7,225.00 for the first 100,000 cubic yards, plus \$250.00 for each additional 10,000 cubic yards or fraction thereof.

## CHAPTER 2

# DEFINITIONS

### SECTION 201 GENERAL

**201.1 Scope.** Unless otherwise expressly stated, the following words and terms shall, for the purposes of this code, have the meanings shown in this chapter.

**201.2 Interchangeability.** Words used in the present tense include the future; words stated in the masculine gender include the feminine and neuter; the singular number includes the plural and the plural, the singular.

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

**201.4 Terms not defined.** Where terms, phrases and words are not defined they shall have the ordinarily accepted meaning as the context implies. The definitions in *Webster's Third New International Dictionary of the English Language, Unabridged* shall be considered as providing ordinarily accepted meanings.

*For applications listed in Section 111 regulated by the Office of the State Fire Marshal, where terms are not defined through the methods authorized by this section, such terms shall have ordinarily accepted meanings such as the context implies. Webster's Third New International Dictionary of the English Language, Unabridged, shall be considered as providing ordinarily accepted meanings.*

### SECTION 202 DEFINITIONS

**AAC MASONRY.** See Section 2102.1.

**ACCESS AISLE.** [DSA-AC] See Chapter 11B, Section 1102B.

**ACCESSIBILITY.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.1-A, and Chapter 11B, Section 1102B.

**ACCESSIBLE.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.1-A, and Chapter 11B, Section 1102B.

**ACCESSIBLE ELEMENT.** [DSA-AC] See Chapter 11B, Section 1102B.

**ACCESSIBLE MEANS OF EGRESS.** See Section 1002.1.

**ACCESSIBLE ROUTE.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.1-A.

**ACCESSIBLE ROUTE OF TRAVEL.** [DSA-AC] See Chapter 11B, Section 1102B.

**ACCESSIBLE SPACE.** [DSA-AC] See Chapter 11B, Section 1102B.

**ACCREDITATION BODY.** See Section 2302.1.

**ADAPTABILITY.** [DSA-AC] See Chapter 11B, Section 1102B.

**ADAPTABLE DWELLING UNIT.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.1-A.

**ADDITION.** An extension or increase in floor area or height of a building or structure.

[DSA-AC] "Addition" is an extension, expansion or increase in floor area or height of a building, facility or structure.

**ADHERED MASONRY VENEER.** See Section 1402.1.

**ADMINISTRATIVE AUTHORITY.** [DSA-AC] See Chapter 11B, Section 1102B.

**ADOBE CONSTRUCTION.** See Section 2102.1.

**Adobe, stabilized.** See Section 2102.1.

**Adobe, unstabilized.** See Section 2102.1.

**[F] AEROSOL.** See Section 307.2.

**Level 1 aerosol products.** See Section 307.2.

**Level 2 aerosol products.** See Section 307.2.

**Level 3 aerosol products.** See Section 307.2.

**[F] AEROSOL CONTAINER.** See Section 307.2.

**AGED HOME OR INSTITUTION.** See Section 310.

**AGRICULTURAL, BUILDING.** A structure designed and constructed to house farm implements, hay, grain, poultry, livestock or other horticultural products. This structure shall not be a place of human habitation or a place of employment where agricultural products are processed, treated or packaged, nor shall it be a place used by the public.

**AIR-INFLATED STRUCTURE.** See Section 3102.2.

**AIR-SUPPORTED STRUCTURE.** See Section 3102.2.

**Double skin.** See Section 3102.2.

**Single skin.** See Section 3102.2.

**AISLE.** See Section 1002.1.

[DSA-AC] See Chapter 11B, Section 1102B.

**AISLE ACCESSWAY.** See Section 1002.1.

**AISLE, EMPLOYEE AREAS.** [DSA-AC] See Chapter 11B, Section 1102B.

**[F] ALARM NOTIFICATION APPLIANCE.** See Section 902.1.

**[F] ALARM SIGNAL.** See Section 902.1.

**[F] ALARM VERIFICATION FEATURE.** See Section 902.1.

**ALLOWABLE STRESS DESIGN.** See Section 1602.1.

## DEFINITIONS

**ALTERATION or ALTER.** Any construction or renovation to an existing structure other than repair or addition.

*[DSA-AC] "Alteration or alter" is any change, addition or modification in construction or occupancy or structural repair or change in primary function to an existing structure made by, on behalf of or for the use of a public accommodation or commercial facility that affects or could affect the usability of the building or facility or part thereof. Alterations include, but are not limited to, remodeling, renovation, rehabilitation, reconstruction, historic restoration, changes or rearrangement of the structural parts or elements, and changes or rearrangement in the plan configuration of walls and full-height partitions.*

**ALTERNATE CARD READER.** *[DSA-AC] See Chapter 11C, Section 1101C.1.*

**ALTERNATING TREAD DEVICE.** See Section 1002.1.

**ANCHOR.** See Section 2102.1.

**ANCHOR BUILDING.** See Section 402.2.

**ANCHORED MASONRY VENEER.** See Section 1402.1.

**ANNULAR SPACE.** See Section 702.1.

**[F] ANNUNCIATOR.** See Section 902.1.

**ANSI [DSA-AC]** means the American National Standards Institute.

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

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

**Notes: [HCD 1 & HCD 2]**

1. See Health and Safety Code Section 17920 for "Approved" as applied to residential construction and buildings or structures accessory thereto, as referenced in Section 108.2.1.1.
2. See Health and Safety Code Section 17921.1 for "Approved" as applied to the use of hotplates in residential construction referenced in Section 108.2.1.1.
3. See Health and Safety Code Section 17921.3 for "Approved" as applied to low-flush water closets in residential construction, as referenced in Section 108.2.1.1.
4. See Health and Safety Code Section 19966 for "Approved" as applied to factory-built housing as referenced in Section 108.3.2.5.
5. See Health and Safety Code Section 18201 for "Approved" as applied to mobilehome parks as referenced in Section 108.2.

6. See Health and Safety Code Section 18862.1 for "Approved" as applied to special occupancy parks as referenced in Section 108.2.

**APPROVED AGENCY.** See Section 1702.1.

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

**APPROVED TESTING AGENCY [DSA-AC, HCD 1 & HCD 2]** is any agency, which is determined by the enforcing agency, except as otherwise provided by statute, to have adequate personnel and expertise to carry out the testing of systems, materials, types of construction, fixtures or appliances.

**APPROVED FABRICATOR.** See Section 1702.1.

**APPROVED SOURCE.** An independent person, firm or corporation, approved by the building official, who is competent and experienced in the application of engineering principles to materials, methods or systems analyses.

**ARCHITECTURAL TERRA COTTA.** See Section 2102.1.

**AREA.** See Section 2102.1.

**Bedded.** See Section 2102.1.

**Gross cross-sectional.** See Section 2102.1.

**Net cross-sectional.** See Section 2102.1.

**AREA, BUILDING.** See Section 502.1.

**AREA OF REFUGE.** See Section 1002.1.

**AREAWAY.** A subsurface space adjacent to a building open at the top or protected at the top by a grating or guard.

**ASSEMBLY AREA.** *[DSA-AC] See Chapter 11B, Section 1102B.*

**ASSISTED LIVING FACILITIES.** See Section 31 0.2, "Residential care/Assisted living facilities."

**ASSISTIVE DEVICE.** *[DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.1-A.*

**ATRIUM.** See Section 404.1.1.

**ATTIC.** The space between the ceiling beams of the top story and the roof rafters.

**[F] AUDIBLE ALARM NOTIFICATION APPLIANCE.** See Section 902.1.

**AUTOCLAVED AERATED CONCRETE (AAC).** See Section 2102.1.

**[F] AUTOMATIC.** See Section 902.1.

**AUTOMATIC DOOR.** *[DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.1-A, and Chapter 11B, Section 1102B.*

**[F] AUTOMATIC FIRE-EXTINGUISHING SYSTEM.** See Section 902.1.

**[F] AUTOMATIC SPRINKLER SYSTEM.** See Section 902.1.

[F] **AVERAGE AMBIENT SOUND LEVEL.** See Section 902.1.

**AWNING.** An architectural projection that provides weather protection, identity or decoration and is wholly supported by the building to which it is attached. An awning is comprised of a lightweight, rigid skeleton structure over which a covering is attached.

**BACKING.** See Section 1402.1.

**BALCONY, EXTERIOR.** See Section 1602.1.

**BALED COTTON.** See Section 307.2.

**BALED COTTON, DENSELY PACKED.** See Section 307.2.

[F] **BARRICADE.** See Section 307.2.

**Artificial barricade.** See Section 307.2.

**Natural barricade.** See Section 307.2.

**BASE FLOOD.** See Section 1612.2.

**BASE FLOOD ELEVATION.** See Section 1612.2.

**BASEMENT.** See Sections 502.1 and 1612.2.

**BATHROOM.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.2-B.

**BED JOINT.** See Section 2102.1.

**BEDRIDDEN PERSON.** See Section 310.

**BLEACHERS.** See Section 1002.1.

LA **BOARD.** The Board of Building and Safety Commissioners of  
LA the City of Los Angeles.

**BOARDING HOUSE.** See Section 310.2.

[F] **BOILING POINT.** See Section 307.2.

**BOND BEAM.** See Section 2102.1.

**BOND REINFORCING.** See Section 2102.1.

**BRACED WALL LINE.** See Section 2302.1.

**BRACED WALL PANEL.** See Section 2302.1.

**BRICK.** See Section 2102.1.

**Calcium silicate (sand lime brick).** See Section 2102.1.

**Clay or shale.** See Section 2102.1.

**Concrete.** See Section 2102.1.

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

*Exception: [HCD 1, HCD 2 & HCD 1-AC] For applications listed in Section 108.2 regulated by the Department of Housing and Community Development, "Building" shall not include the following:*

1. Any mobilehome as defined in Health and Safety Code Section 18008.
2. Any manufactured home as defined in Health and Safety Code Section 18007.
3. Any commercial modular as defined in Health and Safety Code Section 18001.8 or any special purpose commercial modular as defined in Section 18012.5.

4. Any recreational vehicle as defined in Health and Safety Code Section 18010.

5. Any multi-unit manufactured housing as defined in Health and Safety Code Section 18008.7.

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

*Note: [SFM] "Building" shall have the same meaning as defined in Health and Safety Code Sections 17920 and 18908 for the applications specified in Section 111.*

**BUILDING, EXISTING [DSA-AC & HCD 1 & HCD 2]** is a building erected prior to the adoption of this code, or one for which a legal building permit has been issued.

**BUILDING CODE (CODE).** The Los Angeles City Building Code, Article 1 of Chapter IX of the Los Angeles Municipal Code. LA  
LA  
LA

**BUILDING ENTRANCE ON AN ACCESSIBLE ROUTE.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.2-B.

**BUILDING LINE.** Any private property line coterminous with a public way; or a building line established by City ordinance. LA  
LA  
LA  
LA

**BUILDING OFFICIAL.** The Superintendent of Building for the City of Los Angeles Department of Building and Safety. LA  
LA  
LA

**BUILT-UP ROOF COVERING.** See Section 1502.1.

**BUTTRESS.** See Section 2102.1.

**CABLE-RESTRAINED, AIR-SUPPORTED STRUCTURE.** See Section 3102.2.

**CALIFORNIA BUILDING CODE (CBC).** Part 2, Title 24 of the California Code of Regulations as adopted by the California Building Standards Commission and published as the 2007 Edition of the California Building Code which in part incorporates by adoption the 2006 Edition of the International Building Code. LA  
LA  
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**CANOPY.** An architectural projection that provides weather protection, identity or decoration and is supported by the building to which it is attached and at the outer end by not less than one stanchion. A canopy is comprised of a rigid structure over which a covering is attached.

[F] **CARBON DIOXIDE EXTINGUISHING SYSTEMS.** See Section 902.1.

**CARE AND SUPERVISION.** See Section 310.

**CAST STONE.** See Section 2102.1.

**CATASTROPHICALLY INJURED.** See Section 310.

**CCR [DSA-AC]** means the California Code of Regulations.

[F] **CEILING LIMIT.** See Section 902.1.

**CEILING RADIATION DAMPER.** See Section 702.1.

**CELL.** See Sections 308.4.6 and 2102.1.

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

**CEMENT PLASTER.** See Section 2502.1.

## DEFINITIONS

- CERAMIC FIBER BLANKET. See Section 721.1.1.
- CERTIFICATE OF COMPLIANCE. See Section 1702.1.
- LA CHIEF OF THE FIRE DEPARTMENT. The Fire Chief of  
LA the Los Angeles Fire Department or a duly authorized repre-  
LA sentative.
- CHILD or CHILDREN.* See Section 310.
- CHILD CARE CENTER.* See Section 310.
- CHIMNEY. See Section 2102.1.
- CHIMNEY TYPES. See Section 2102.1.
- High-heat appliance type. See Section 2102.1.
- Low-heat appliance type. See Section 2102.1.
- Masonry type. See Section 2102.1.
- Medium-heat appliance type. See Section 2102.1.
- CHRONICALLY ILL. [SFM]* See Section 310.
- CIRCULATION PATH. [DSA-AC & HCD 1-AC] See Chapter 11B, Section 1102B.
- LA CITY. The City of Los Angeles, California.
- [F] CLEAN AGENT. See Section 902.1.
- CLEANOUT. See Section 2102.1.
- CLEAR. [DSA-AC]* See Chapter 11B, Section 1102B.
- CLEAR FLOOR SPACE. [DSA-AC]* See Chapter 11B, Section 1102B.
- CLOSED-CIRCUIT TELEPHONE. [DSA-AC]* See Chapter 11B, Section 1102B.
- [F] CLOSED SYSTEM. See Section 307.2.
- COLLAR JOINT. See Section 2102.1.
- COLLECTOR. See Section 2302.1.
- COLUMN, MASONRY. See Section 2102.1.
- COMBINATION FIRE/SMOKE DAMPER. See Section 702.1.
- [F] COMBUSTIBLE DUST. See Section 307.2.
- [F] COMBUSTIBLE FIBERS. See Section 307.2.
- [F] COMBUSTIBLE LIQUID. See Section 307.2.
- Class II. See Section 307.2.
- Class IIIA. See Section 307.2.
- Class IIIB. See Section 307.2.
- COMMERCIAL FACILITIES [DSA-AC]* are facilities that are intended for nonresidential use and whose operations will affect commerce, including factories, warehouses, office buildings and other buildings in which employment may occur. Commercial facilities shall not include railroad locomotives, railroad freight cars, railroad cabooses, railroad cars covered under Title II of the Americans with Disabilities Act of 1990 or facilities that are covered or expressly exempted from coverage under the Fair Housing Amendment Act of 1988 (42 USC 3601-3631, et seq).
- COMMON PATH OF EGRESS TRAVEL. See Section 1002.1.
- COMMON USE AREAS. [DSA-AC & HCD 1-AC]* See Chapter 11A, Section 1107A.3-C, and Chapter 11B, Section 1102B.
- COMPOSITE ACTION. See Section 2102.1.
- COMPOSITE MASONRY. See Section 2102.1.
- [F] COMPRESSED GAS. See Section 307.2.
- COMPRESSIVE STRENGTH OF MASONRY. See Section 2102.1.
- CONCRETE, CARBONATE AGGREGATE. See Section 721.1.1.
- CONCRETE, CELLULAR. [HCD 1 & HCD 2]* See Section 721.1.1. See "Cellular concrete."
- CONCRETE, LIGHTWEIGHT AGGREGATE. See Section 721.1.1.
- CONCRETE, PERLITE. See Section 721.1.1.
- CONCRETE, SAND-LIGHTWEIGHT. See Section 721.1.1.
- CONCRETE, SILICEOUS AGGREGATE. See Section 721.1.1.
- CONCRETE, VERMICULITE. See Section 721.1.1.
- CONGREGATE LIVING FACILITIES. See Section 310.2.
- CONGREGATE LIVING HEALTH FACILITY (CLHF).* See Section 310.
- CONGREGATE RESIDENCE.* See Section 310.
- CONNECTOR. See Section 2102.1.
- [F] CONSTANTLY ATTENDED LOCATION. See Section 902.1.
- CONSTRUCTION DOCUMENTS. Written, graphic and pictorial documents prepared or assembled for describing the design, location and physical characteristics of the elements of a project necessary for obtaining a building permit.
- CONSTRUCTION TYPES. See Section 602.
- Type I. See Section 602.2.
- Type II. See Section 602.2.
- Type III. See Section 602.3.
- Type IV. See Section 602.4.
- Type V. See Section 602.5.
- [F] CONTINUOUS GAS-DETECTION SYSTEM. See Section 415.2.
- [F] CONTROL AREA. See Section 307.2.
- CONTROLLED LOW-STRENGTH MATERIAL. A self-compacted, cementitious material used primarily as a backfill in place of compacted fill.
- CONVENTIONAL LIGHT-FRAME WOOD CONSTRUCTION. See Section 2302.1.
- CORRIDOR. See Section 1002.1.
- CORROSION RESISTANCE. The ability of a material to withstand deterioration of its surface or its properties when exposed to its environment.

**[F] CORROSIVE.** See Section 307.2.

**COURT.** An open, uncovered space, unobstructed to the sky, bounded on three or more sides by exterior building walls or other enclosing devices.

**COVER.** See Section 2102.1.

**COVERED MALL BUILDING.** See Section 402.2.

**COVERED MULTIFAMILY DWELLINGS.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.3-C.

**CRIPPLE WALL.** See Section 2302.1.

**CROSS SLOPE.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.3-C, and Chapter 11B, Section 1102B.

**CRYOGENIC FLUID.** See Section 307.2.

**CURB CUT.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.3-C, and Chapter 11B, Section 1102B.

**CURB RAMP.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.3-C, and Chapter 11B, Section 1102B.

**DALLE GLASS.** See Section 2402.1.

**DAMPER.** See Section 702.1.

**DAY BOX.** See Section 307.2.

**DAY CARE.** See Section 310.

**DAY CARE HOME, LARGE FAMILY.** See Section 310.

**DAY CARE HOME, SMALL FAMILY.** See Section 310.

**DEAD LOADS.** See Section 1602.1.

**DECK.** See Section 1602.1.

**DECORATIVE GLASS.** See Section 2402.1.

**[F] DECORATIVE MATERIALS.** All materials applied over the building interior finish for decorative, acoustical or other effect (such as curtains, draperies, fabrics, streamers and surface coverings), and all other materials utilized for decorative effect (such as batting, cloth, cotton, hay, stalks, straw, vines, leaves, trees, moss and similar items), including foam plastics and materials containing foam plastics. Decorative materials do not include floor coverings, ordinary window shades, interior finish and materials 0.025 inch (0.64 mm) or less in thickness applied directly to and adhering tightly to a substrate.

**[F] DEFLAGRATION.** See Section 307.2.

**[F] DELUGE SYSTEM.** See Section 902.1.

**LA DEPARTMENT.** The Department of Building and Safety.

**DESIGN DISPLACEMENT.** See Section 1908.1.3.

**DESIGN EARTHQUAKE GROUND MOTION.** See Section 1613.2.

**DESIGN FLOOD.** See Section 1612.2.

**DESIGN FLOOD ELEVATION.** See Section 1612.2.

**DESIGN STRENGTH.** See Section 1602.1.

**DESIGNATED SEISMIC SYSTEM.** See Section 1702.1.

**[F] DETACHED BUILDING.** See Section 307.2.

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

**DETAILED PLAIN CONCRETE STRUCTURAL WALL.** See Section 1908.1.3.

**DETECTABLE WARNING.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.4-D, and Chapter 11B, Section 1102B.

**[F] DETECTOR, HEAT.** See Section 902.1.

**[F] DETONATION.** See Section 307.2.

**DIAPHRAGM.** See Sections 1602.1 and 2102.1.

**Diaphragm, blocked.** See Sections 1602.1.

**Diaphragm, boundary.** See Section 1602.1.

**Diaphragm, chord.** See Section 1602.1.

**Diaphragm, flexible.** See Section 1602.1.

**Diaphragm, rigid.** See Section 1602.1.

**Diaphragm, unblocked.** See Section 2302.1.

**DIMENSIONS.** See Section 2102.1.

**Actual.** See Section 2102.1.

**Nominal.** See Section 2102.1.

**Specified.** See Section 2102.1.

**DIRECTIONAL SIGN [DSA-AC, HCD 1 & HCD 2]** is a publicly displayed notice which indicates by use of words or symbols a recommended direction or route of travel.

**DISABILITY.** [DSA-AC] is (1) a physical or mental impairment that limits one or more of the major life activities of an individual, (2) a record of such an impairment, or (3) being regarded as having such an impairment.

**DISABLED.** [DSA-AC] See "Disability."

**DISPENSING.** See Section 307.2.

**DOOR, BALANCED.** See Section 1002.1.

**DORMITORY.** See Sections 308.4.6 and 310.2.

**DRAFTSTOP.** See Section 702.1.

**DRAG STRUT.** See Section 2302.1.

**[F] DRY-CHEMICAL EXTINGUISHING AGENT.** See Section 902.1.

**DRY FLOODPROOFING.** See Section 1612.2.

**DURATION OF LOAD.** See Section 1602.1.

**DWELLING.** A building that contains one or two dwelling units used, intended or designed to be used, rented, leased, let or hired out to be occupied for living purposes.

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

[DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.4-D, and Chapter 11B, Section 1102B.

## DEFINITIONS

- EFFECTIVE HEIGHT.** See Section 2102.1.
- EFFICIENCY DWELLING UNIT [HCD 1]** *is a dwelling unit containing only one habitable room and includes an efficiency unit as defined by Health and Safety Code Section 17958.1. See Section 1208.4.*
- EGRESS COURT.** See Section 1002.1.
- ELECTRIC VEHICLE.** See Section 406.7.
- ELECTRICAL CODE.** The *Los Angeles City Electrical Code*, Article 3 of Chapter IX of the *Los Angeles Municipal Code*.
- ELEMENT.** [DSA-AC] See Chapter 11B, Section 1102B.
- ELEVATOR, PASSENGER.** [DSA-AC] See Chapter 11B, Section 1102B.
- ELEVATOR CODE.** The *Los Angeles City Elevator Code*, Article 2 of Chapter IX of the *Los Angeles Municipal Code*.
- [F] EMERGENCY ALARM SYSTEM.** See Section 902.1.
- [F] EMERGENCY CONTROL STATION.** See Section 415.2.
- EMERGENCY ESCAPE AND RESCUE OPENING.** See Section 1002.1.
- [F] EMERGENCY VOICE/ALARM COMMUNICATIONS.** See Section 902.1.
- ENFORCEMENT.** [HCD 1 & HCD 2] *The applicable section of the Health and Safety Code is repeated here for clarity and reads as follows:*
- Section 17920. "Enforcement" means diligent effort to secure compliance, including review of plans and permit applications, response to complaints, citation of violations, and other legal process. Except as otherwise provided in this part, "Enforcement" may, but need not, include inspections of existing buildings on which no complaint or permit application has been filed, and effort to secure compliance as to these existing buildings.*
- ENFORCING AGENCY [DSA-AC, HCD 1, HCD 2 & SFM]** *is the designated department or agency as specified by statute or regulation.*
- ENTRANCE.** [DSA-AC] See Chapter 11B, Section 1102B.
- EQUIPMENT PLATFORM.** See Section 502.1.
- EQUIVALENT FACILITATION.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.5-E, and Chapter 11B, Section 1102B.
- ESSENTIAL FACILITIES.** See Section 1602.1.
- [F] EXHAUSTED ENCLOSURE.** See Section 415.2.
- EXISTING BUILDINGS.** [DSA-AC] See "Building, existing."
- EXISTING CONSTRUCTION.** See Section 1612.2.
- EXISTING STRUCTURE.** A structure erected prior to the date of adoption of the appropriate code, or one for which a legal building permit has been issued. See also Section 1612.2.
- EXIT.** See Section 1002.1.
- EXIT, HORIZONTAL.** See Section 1002.1.
- EXIT ACCESS.** See Section 1002.1.
- EXIT DISCHARGE.** See Section 1002.1.
- EXIT DISCHARGE, LEVEL OF.** See Section 1002.1.
- EXIT ENCLOSURE.** See Section 1002.1.
- EXIT PASSAGEWAY.** See Section 1002.1.
- EXPANDED VINYL WALL COVERING.** See Section 802.1.
- [F] EXPLOSION.** See Section 902.1.
- [F] EXPLOSIVE.** See Section 307.2.
- High explosive.** See Section 307.2.
- Low explosive.** See Section 307.2.
- Mass detonating explosives.** See Section 307.2.
- UN/DOTn Class 1 Explosives.** See Section 307.2.
- Division 1.1.** See Section 307.2.
- Division 1.2.** See Section 307.2.
- Division 1.3.** See Section 307.2.
- Division 1.4.** See Section 307.2.
- Division 1.5.** See Section 307.2.
- Division 1.6.** See Section 307.2.
- EXTERIOR SURFACES.** See Section 2502.1.
- EXTERIOR WALL.** See Section 1402.1.
- EXTERIOR WALL COVERING.** See Section 1402.1.
- EXTERIOR WALL ENVELOPE.** See Section 1402.1.
- F RATING.** See Section 702.1.
- FABRIC PARTITIONS.** See Section 1602.1.
- FABRICATED ITEM.** See Section 1702.1.
- [F] FABRICATION AREA.** See Section 415.2.
- FACILITY (OR FACILITIES).** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.6-F, and Chapter 11B, Section 1102B.
- FACTORED LOAD.** See Section 1602.1.
- FAMILY [HCD 1]** *is an individual or two or more persons who are related by blood or marriage; or otherwise, live together in a dwelling unit.*
- FIBER CEMENT SIDING.** See Section 1402.1.
- FIBERBOARD.** See Section 2302.1.
- FIRE ALARM BOX, MANUAL.** See Section 902.1.
- [F] FIRE ALARM CONTROL UNIT.** See Section 902.1.
- [F] FIRE ALARM SIGNAL.** See Section 902.1.
- [F] FIRE ALARM SYSTEM.** See Section 902.1.
- FIRE AREA.** See Section 702.1.
- FIRE BARRIER.** See Section 702.1.
- FIRE CODE.** The *Los Angeles City Fire Code*, Article 7 of Chapter V of the *Los Angeles Municipal Code*.
- [F] FIRE COMMAND CENTER.** See Section 902.1.

**FIRE DAMPER.** See Section 702.1.

**[F] FIRE DETECTOR, AUTOMATIC.** See Section 902.1.

**LA FIRE DISTRICT.** Any portion of the City of Los Angeles as  
LA described in Chapter 72 of this Code.

**FIRE DOOR.** See Section 702.1.

**FIRE DOOR ASSEMBLY.** See Section 702.1.

**FIRE EXIT HARDWARE.** See Section 1002.1.

**[F] FIRE LANE.** A road or other passageway developed to allow the passage of fire apparatus. A fire lane is not necessarily intended for vehicular traffic other than fire apparatus.

**FIRE PARTITION.** See Section 702.1.

**FIRE PROTECTION RATING.** See Section 702.1.

**[F] FIRE PROTECTION SYSTEM.** See Section 902.1.

**FIRE RESISTANCE.** See Section 702.1.

**FIRE-RESISTANCE RATING.** See Section 702.1.

**FIRE-RESISTANT JOINT SYSTEM.** See Section 702.1.

**FIRE-RETARDANT TREATED WOOD [SFM]** is any wood product impregnated with chemicals by a pressure process or other means during manufacture, and which, when tested in accordance with ASTM E 84-05 for a period of 30 minutes, shall have a flame spread of not over 25 and show no evidence of progressive combustion. In addition, the flame front shall not progress more than 10<sup>1</sup>/<sub>2</sub> feet (3200 mm) beyond the center line of the burner at any time during the test. Materials that may be exposed to the weather shall pass the accelerated weathering test and be identified as Exterior type, in accordance with ASTM D 2898-94 and ASTM D 3201-94. Where material is not directly exposed to rainfall but exposed to high humidity conditions, it shall be subjected to the hygroscopic test and identified as Interior Type A in accordance with ASTM D 2898-94 and ASTM D 3201-94.

All materials shall bear identification showing the fire performance rating thereof. Such identifications shall be issued by an approved agency having a service for inspection of materials at the factory.

Fire-retardant-treated wood shall not be construed as "noncombustible."

**[F] FIRE SAFETY FUNCTIONS.** See Section 902.1.

**FIRE SEPARATION DISTANCE.** See Section 702.1.

**FIRE WALL.** See Section 702.1.

**FIRE WINDOW ASSEMBLY.** See Section 702.1.

**FIREBLOCKING.** See Section 702.1.

**FIREPLACE.** See Section 2102.1.

**FIREPLACE THROAT.** See Section 2102.1.

**FIREWORKS.** See Section 307.2.

**FIREWORKS, 1.3G.** See Section 307.2.

**FIREWORKS, 1.4G.** See Section 307.2.

**FLAME SPREAD.** See Section 802.1.

**FLAME SPREAD INDEX.** See Section 802.1.

**[F] FLAMMABLE GAS.** See Section 307.2.

**[F] FLAMMABLE LIQUEFIED GAS.** See Section 307.2.

**[F] FLAMMABLE LIQUID.** See Section 307.2.

Class IA. See Section 307.2.

Class IB. See Section 307.2.

Class IC. See Section 307.2.

**[F] FLAMMABLE MATERIAL.** See Section 307.2.

**[F] FLAMMABLE SOLID.** See Section 307.2.

**[F] FLAMMABLE VAPORS OR FUMES.** See Section 415.2.

**[F] FLASH POINT.** See Section 307.2.

**FLEXURAL LENGTH.** See Section 1808.1.

**FLOOD OR FLOODING.** See Section 1612.2.

**FLOOD DAMAGE-RESISTANT MATERIALS.** See Section 1612.2.

**FLOOD HAZARD AREA.** See Section 1612.2.

**FLOOD HAZARD AREA SUBJECT TO HIGH VELOCITY WAVE ACTION.** See Section 1612.2.

**FLOOD INSURANCE RATE MAP (FIRM).** See Section 1612.2.

**FLOOD INSURANCE STUDY.** See Section 1612.2.

**FLOODWAY.** See Section 1612.2.

**FLOOR AREA, GROSS.** See Section 1002.1.

**FLOOR AREA, NET.** See Section 1002.1.

**FLOOR FIRE DOOR ASSEMBLY.** See Section 702.1.

**FLY GALLERY.** See Section 410.2.

**[F] FOAM-EXTINGUISHING SYSTEMS.** See Section 902.1.

**FOAM PLASTIC INSULATION.** See Section 2602.1.

**FOLDING AND TELESCOPIC SEATING.** See Section 1002.1.

**FOOD COURT.** See Section 402.2.

**FOUNDATION-ONLY PERMIT.** A building permit issued for that portion of a building, which constitutes the footings for the building and which, subject to the approval of the Department, may include those portions of the building below the grade level.

**FOUNDATION PIER.** See Section 2102.1.

**FREE-STANDING PEDESTAL. [DSA-AC]** See Chapter 11C, Section 1101C.1.

**FULL-TIME CARE.** See Section 310.

**[F] GAS CABINET.** See Section 415.2.

**[F] GAS ROOM.** See Section 415.2.

**[F] GASEOUS HYDROGEN SYSTEM.** See Section 420.2.

**GLASS FIBERBOARD.** See Section 721.1.1.

**GLASS UNIT MASONRY.** See Section 2102.1.

## DEFINITIONS

- GLUED BUILT-UP MEMBER.** See Section 2302.1.
- GRAB BAR. [DSA-AC & HCD 1-AC]** See Chapter 11A, Section 1107A.7-G, and Chapter 11B, Section 1102B.
- GRADE (Adjacent Ground Elevation) [DSA-AC]** is the lowest point of elevation of the finished surface of the ground, paving or sidewalk within the area between the building and the property line or, when the property line is more than 5 feet (1524 mm) from the building, between the building and a line 5 feet (1524 mm) from the building. See Health and Safety Code Section 19955.3(d).
- GRADE. [HCD 1 & HCD 2]** See Section 502.1.
- GRADE FLOOR OPENING.** A window or other opening located such that the sill height of the opening is not more than 44 inches (1118 mm) above or below the finished ground level adjacent to the opening.
- GRADE (LUMBER).** See Section 2302.1.
- GRADE PLANE.** See Section 502.1.
- GRADING.** Shall mean soil excavation or fill or any combination of soil excavation or fill and shall include the conditions resulting from any soil excavation or fill.
- GRAFFITI.** Shall mean any unauthorized inscription, work, figure or design which is marked, etched, scratched, drawn or painted on any structural component of any building, structure or other facility regardless of the nature of the material of that structural component. Graffiti shall constitute a nuisance.
- GRANDSTAND.** See Section 1002.1.
- GRIDIRON.** See Section 410.2.
- GROSS LEASABLE AREA.** See Section 402.2.
- GROUND FLOOR. [DSA-AC & HCD 1-AC]** See Chapter 11A, Section 1107A.7-G.
- GROUTED MASONRY.** See Section 2102.1.
- Grouted hollow-unit masonry.** See Section 2102.1.
- Grouted multiwythe masonry.** See Section 2102.1.
- GUARD [DSA-AC, HCD 1 & HCD 2] or GUARDRAIL.** See Section 1002.1.
- GYPSON BOARD.** See Section 2502.1.
- GYPSON PLASTER.** See Section 2502.1.
- GYPSON VENEER PLASTER.** See Section 2502.1.
- HABITABLE SPACE.** A space in a building for living, sleeping, eating or cooking. Bathrooms, toilet rooms, closets, halls, storage or utility spaces and similar areas are not considered habitable spaces.
- [F] HALOGENATED EXTINGUISHING SYSTEMS.** See Section 902.1.
- [F] HANDLING.** See Section 307.2.
- HANDRAIL.** See Section 1002.1.
- HARDBOARD.** See Section 2302.1.
- [F] HAZARDOUS MATERIALS.** See Section 307.2.
- [F] HAZARDOUS PRODUCTION MATERIAL (HPM).** See Section 415.2.
- HAZARDOUS SUBSTANCE [SFM]** is a substance which, by reason of being explosive, flammable, toxic, poisonous, corrosive, oxidizing, irritant or otherwise harmful, is likely to cause injury.
- HEAD JOINT.** See Section 2102.1.
- HEADER (Bonder).** See Section 2102.1.
- HEALTH CARE PROVIDER. [DSA-AC]** See "Professional Office of a Health Care Provider" in Chapter 11B, Section 1102B.
- [F] HEALTH HAZARD.** See Section 307.2.
- HEIGHT, BUILDING.** See Section 502.1.
- HEIGHT, STORY.** See Section 502.1.
- HEIGHT, WALLS.** See Section 2102.1.
- HELIPORT.** See Section 412.5.1.
- HELISTOP.** See Section 412.5.1.
- [F] HIGHLY TOXIC.** See Section 307.2.
- HIGH-RISE BUILDING. [SFM]** As used in this code:
1. "Existing high-rise structure" means a high-rise structure, the construction of which is commenced or completed prior to July 1, 1974.
  2. "High-rise structure" means every building of any type of construction or occupancy having floors used for human occupancy located more than 75 feet (22 860 mm) above the lowest floor level having building access (see Section 403.1.2), except buildings used as hospitals as defined in Health and Safety Code Section 1250.
  3. "New high-rise structure" means a high-rise structure, the construction of which is commenced on or after July 1, 1974.
- HISTORICAL BUILDINGS. [DSA-AC]** See "Qualified historical building or property," C.C.R., Title 24, Part 8.
- HORIZONTAL ASSEMBLY.** See Section 702.1.
- HOTEL or MOTEL [DSA-AC, HCD 1 & HCD 2]** is any building containing six or more guest rooms intended or designed to be used, or which are used, rented or hired out to be occupied, or which are occupied for sleeping purposes by guests.
- [F] HPM FLAMMABLE LIQUID.** See Section 415.2.
- [F] HPM ROOM.** See Section 415.2.
- HURRICANE-PRONE REGIONS.** See Section 1609.2.
- [F] HYDROGEN CUTOFF ROOM.** See Section 420.2.
- IMMEDIATELY DANGEROUS TO LIFE AND HEALTH (IDLH).** See Section 415.2.
- IMPACT INSULATION CLASS (IIC).** See Chapter 12, Section 1207.2.
- IMPACT LOAD.** See Section 1602.1.
- INCOMPATIBLE MATERIALS.** See Section 307.2.
- INDEPENDENT ENTITY [DSA-AC]** is a not-for-profit product safety testing and certification organization, dedicated to testing for public safety. An independent entity would

operate for the testing, certification and quality assessment of products, systems and services.

**INDUSTRIAL CATERING TRUCK.** An industrial catering truck is a motor vehicle used for the purpose of dispensing and selling liquids from sanitary dispensers and/or ready-to-eat food and beverages that have been prepared and sealed or packaged on premises so long as the owner and operator have a valid health permit authorizing the preparation of food. The above items may be prepared on any industrial catering truck so long as the owner and operator have a valid health permit for that preparation.

**INFANT.** [SFM] See Section 310.

**[F] INITIATING DEVICE.** See Section 902.1.

**INSPECTION CERTIFICATE.** See Section 1702.1.

**INTERIOR FINISH.** See Section 802.1.

**INTERIOR FLOOR FINISH.** See Section 802.1.

**INTERIOR SURFACES.** See Section 2502.1.

**INTERIOR WALL AND CEILING FINISH.** See Section 802.1.

**INTERLAYMENT.** See Section 1502.1.

**INTERNATIONAL SYMBOL OF ACCESSIBILITY.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.9-1, and Chapter 11B, Section 1102B.

**JOINT.** See Section 702.1.

**JURISDICTION.** The governmental unit that has adopted this code under due legislative authority.

**KICK PLATE.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.11-K, and Chapter 11B, Section 1102B.

**LABEL.** See Section 1702.1.

**LEVEL ACCESSIBLE AREA.** [DSA-AC] See Chapter 11C, Section 1101C.1.

**LEVEL AREA.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.12-L, and Chapter 11B, Section 1102B.

**LIFT, SPECIAL ACCESS.** [DSA-AC & HCD 1-AC] See "Special access lift" Chapter 11A, Section 1107A.12-L, and Chapter 11B, Section 1102B.

**LIGHT-DIFFUSING SYSTEM.** See Section 2602.1.

**LIGHT-FRAME CONSTRUCTION.** A type of construction whose vertical and horizontal structural elements are primarily formed by a system of repetitive wood or light gage steel framing members.

**LIGHT-TRANSMITTING PLASTIC ROOF PANELS.** See Section 2602.1.

**LIGHT-TRANSMITTING PLASTIC WALL PANELS.** See Section 2602.1.

**LIMIT STATE.** See Section 1602.1.

**[F] LIQUID.** See Section 415.2.

**[F] LIQUID STORAGE ROOM.** See Section 415.2.

**[F] LIQUID USE, DISPENSING AND MIXING ROOMS.** See Section 415.2.

**LISTED.** See Section 902.1.

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

For applications listed in Section 111 regulated by the Office of the State Fire Marshal, "Listed" shall also mean equipment or materials accepted by the State Fire Marshal as conforming to the provisions of the State Fire Marshal's regulations and which are included in a list published by the State Fire Marshal.

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

**LIVE LOADS.** See Section 1602.1.

**LIVE LOADS (ROOF).** See Section 1602.1.

**LOAD AND RESISTANCE FACTOR DESIGN (LRFD).** See Section 1602.1.

**LOAD EFFECTS.** See Section 1602.1.

**LOAD FACTOR.** See Section 1602.1.

**LOADS.** See Section 1602.1.

**LOBBY [HCD 1, HCD 2 & SFM]** is an area not defined as a waiting room at the entrance of a building through which persons must pass.

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

**LOT.** A portion or parcel of land considered as a unit.

**LOT LINE.** A line dividing one lot from another, or from a street or any public place.

**[F] LOWER FLAMMABLE LIMIT (LFL).** See Section 415.2.

**LOWEST FLOOR.** See Section 1612.2.

**MAIN WINDFORCE-RESISTING SYSTEM.** See Section 1702.1.

**MALL.** See Section 402.2.

**[F] MANUAL FIRE ALARM BOX.** See Section 902.1.

**MANUFACTURER'S DESIGNATION.** See Section 1702.1.

**MARK.** See Section 1702.1.

**MARKED CROSSING.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.13-M, and Chapter 11B, Section 1102B.

## DEFINITIONS

**MARQUEE.** A permanent roofed structure attached to and supported by the building and that projects into the public right-of-way.

**MASONRY.** See Section 2102.1.

Ashlar masonry. See Section 2102.1.

Coursed ashlar. See Section 2102.1.

Glass unit masonry. See Section 2102.1.

Plain masonry. See Section 2102.1.

Random ashlar. See Section 2102.1.

Reinforced masonry. See Section 2102.1.

Solid masonry. See Section 2102.1.

Unreinforced (plain) masonry. See Section 2102.1.

**MASONRY UNIT.** See Section 2102.1.

Clay. See Section 2102.1.

Concrete. See Section 2102.1.

Hollow. See Section 2102.1.

Solid. See Section 2102.1.

**MAXIMUM CONSIDERED EARTHQUAKE GROUND MOTION.** See Section 1613.2.

**MEAN DAILY TEMPERATURE.** See Section 2102.1.

**MEANS OF EGRESS.** See Section 1002.1.

**MECHANICAL CODE.** The *Los Angeles City Mechanical Code*, Article 5 of Chapter IX of the *Los Angeles Municipal Code*.

**MECHANICAL-ACCESS OPEN PARKING GARAGES.** See Section 406.3.2.

**MECHANICAL EQUIPMENT SCREEN.** See Section 1502.1.

**MECHANICAL SYSTEMS.** See Section 1613.2.

**MEMBRANE-COVERED CABLE STRUCTURE.** See Section 3102.2.

**MEMBRANE-COVERED FRAME STRUCTURE.** See Section 3102.2.

**MEMBRANE PENETRATION.** See Section 702.1.

**MEMBRANE-PENETRATION FIRESTOP.** See Section 702.1.

**MENTALLY RETARDED PERSONS, PROFOUNDLY OR SEVERELY.** See Section 310.

**MERCHANDISE PAD.** See Section 1002.1.

**METAL COMPOSITE MATERIAL (MCM).** See Section 1402.1.

**METAL COMPOSITE MATERIAL (MCM) SYSTEM.** See Section 1402.1.

**METAL ROOF PANEL.** See Section 1502.1.

**METAL ROOF SHINGLE.** See Section 1502.1.

**MEZZANINE.** See Section 502.1.

**MICROPILES.** See Section 1808.1.

**MINERAL BOARD.** See Section 721.1.1.

**MINERAL FIBER.** See Section 702.1.

**MINERAL WOOL.** See Section 702.1.

**MODERNIZATION PROJECT [SFM]** is any construction effort that has an estimated total cost in excess of \$200,000 that is intended to modify a permanent school building or structure and/or the addition of a new school building or structure used to serve or house students from kindergarten through 12<sup>th</sup> grade (K-12). Modernization efforts shall apply strictly to a public school that was established prior to July 1, 2002, and is funded pursuant to the Education Code, Section 17074.56, and Education Code commencing with Section 17070.10. Modernization projects that are to be completed in more than one phase may defer the installation of the automatic fire detection and alarm systems until the final phase of the modernization project. Solely for the purposes of Education Code Section 17074.20, routine maintenance and repair work shall not be considered a modernization project.

**MODIFIED BITUMEN ROOF COVERING.** See Section 1502.1.

**MORTAR.** See Section 2102.1.

**MORTAR, SURFACE-BONDING.** See Section 2102.1.

**MOTEL.** [DSA-AC, HCD 1 & HCD 2] See "Hotel or Motel."

**MOTION PICTURE AND TELEVISION PRODUCTION STUDIO SOUND STAGES, APPROVED PRODUCTION FACILITIES AND PRODUCTION LOCATIONS.** See Chapter 46, California Fire Code.

**MULTILEVEL ASSEMBLY SEATING.** See Section 1102.1.

**MULTIPLE-ACCOMMODATION TOILET FACILITY [DSA-AC]** is a room that has more than one sanitary fixture, is intended for the use of more than one person at a time and which usually is provided with privacy compartments or screens shielding some fixtures from view. A bathroom serving a hotel guest room and a privacy toilet in small offices, stores and similar locations are not included in this category.

**[F] MULTIPLE-STATION ALARM DEVICE.** See Section 902.1.

**[F] MULTIPLE-STATION SMOKE ALARM.** See Section 902.1.

**MULTISTORY DWELLING UNIT. [DSA-AC & HCD 1-AC]** See Chapter 11A, Section 1107A.13-M.

**NAILING, BOUNDARY.** See Section 2302.1.

**NAILING, EDGE.** See Section 2302.1.

**NAILING, FIELD.** See Section 2302.1.

**NATURALLY DURABLE WOOD.** See Section 2302.1.

Decay resistant. See Section 2302.1.

Termite resistant. See Section 2302.1.

**NEWLY CONSTRUCTED.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.14-N.

**NEW PUBLIC SCHOOL CAMPUS [SFM]** is an educational institution established on or after July 1, 2002 that houses

and/or serves students from kindergarten through 12<sup>th</sup> grade (K-12) and is funded pursuant to the Education Code, commencing with Section 17070.10.

**NFPA [DSA-AC]** is the National Fire Protection Association.

**NONAMBULATORY PERSONS.** See Section 310.

**NONCOMBUSTIBLE, [SFM]** as applied to building construction material, means a material which, in the form in which it is used, is either one of the following:

1. Material of which no part will ignite and burn when subjected to fire. Any material passing ASTM 136 shall be considered noncombustible.
2. Material having a structural base of noncombustible material as defined in Item 1 above, with a surfacing material not over 1/8 inch (3.2 mm) thick which has a flame-spread rating of 50 or less.

“Noncombustible” does not apply to surface finish materials. Material required to be noncombustible for reduced clearances to flues, heating appliances or other sources of high temperature shall refer to material conforming to Item 1. No material shall be classed as noncombustible, which is subject to increase in combustibility or flame spread rating, beyond the limits herein established, through the effects of age, moisture or other atmospheric condition.

**NOMINAL LOADS.** See Section 1602.1.

**NOMINAL SIZE. (LUMBER).** See Section 2302.1.

**NONCOMBUSTIBLE MEMBRANE STRUCTURE.** See Section 3102.2.

**NORMAL [HCD 1 & HCD 2]** shall mean conforming to a pattern or standard regarded as usual or typical.

**[F] NORMAL TEMPERATURE AND PRESSURE (NTP).** See Section 415.2.

**NOSING (or NOSE).** See Section 1002.1. [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.14-N and Chapter 11B, Section 1102B.

**[F] NUISANCE ALARM.** See Section 902.1.

**OCCUPANCY.** The purpose for which a building, or part of a building, is used or intended to be used. The term “occupancy” as used in this Code shall include the room housing that occupancy and the space immediately above a roof or structure if used or intended to be used for other than a shelter.

**OCCUPANCY CATEGORY.** See Section 1602.1.

**OCCUPANT LOAD.** See Section 1002.1.

**OCCUPIABLE SPACE.** A room or enclosed space designed for human occupancy in which individuals congregate for amusement, educational or similar purposes or in which occupants are engaged at labor, and which is equipped with means of egress and light and ventilation facilities meeting the requirements of this code.

**OPEN PARKING GARAGE.** See Section 406.3.2.

**OPEN RISER. [DSA-AC & HCD 1-AC]** See Chapter 11A, Section 1107A.15-O, and Chapter 11B, Section 1102B.

**[F] OPEN SYSTEM.** See Section 307.2.

**OPERABLE PART. [DSA-AC]** See Chapter 11B, Section 1102B.

**OPERATING BUILDING.** See Section 307.2.

**ORDINARY PRECAST STRUCTURAL WALL.** See Section 1908.1.3.

**ORDINARY REINFORCED CONCRETE STRUCTURAL WALL.** See Section 1908.1.3.

**ORDINARY STRUCTURAL PLAIN CONCRETE WALL.** See Section 1908.1.3.

**[F] ORGANIC PEROXIDE.** See Section 307.2.

**Class I.** See Section 307.2.

**Class II.** See Section 307.2.

**Class III.** See Section 307.2.

**Class IV.** See Section 307.2.

**Class V.** See Section 307.2.

**Unclassified detonable.** See Section 307.2.

**ORGANIZED CAMPS. [SFM]** See Section 440.

**ORTHOGONAL.** See Section 1613.2.

**OTHER STRUCTURES.** See Section 1602.1.

**OWNER.** Any person, agent, firm or corporation having a legal or equitable interest in the property.

**[F] OXIDIZER.** See Section 307.2.

**Class 4.** See Section 307.2.

**Class 3.** See Section 307.2.

**Class 2.** See Section 307.2.

**Class 1.** See Section 307.2.

**[F] OXIDIZING GAS.** See Section 307.2.

**PANEL (PART OF A STRUCTURE).** See Section 1602.1.

**PANIC HARDWARE.** See Section 1002.1.

**PARTICLEBOARD.** See Section 2302.1.

**PASSAGE DOOR. [DSA-AC & HCD 1-AC]** See Chapter 11A, Section 1107A.16-P, and Chapter 11B, Section 1102B.

**PASSENGER ELEVATOR. [DSA-AC]** See “Elevator, passenger” in Chapter 11B, Section 1102B.

**[HCD 1 & HCD 2]** “Passenger elevator” is an elevator used primarily to carry persons. For additional information, see California Code of Regulations, Title 24, Part 7, Article 7-6, Section 3009 of the 2001 California Building Code.

**PASSIVE SOLAR ENERGY COLLECTOR [HCD 1]** uses architectural components, rather than mechanical components, to provide heating or cooling for a building interior.

**PATH OF TRAVEL. [DSA-AC]** See Chapter 11B, Section 1102B.

**PEDESTRIAN. [DSA-AC & HCD 1-AC]** See Chapter 11A, Section 1107A.16-P, and Chapter 11B, Section 1102B.

**PEDESTRIAN GRADE SEPARATION. [DSA-AC]** See Chapter 11B, Section 1102B.

## DEFINITIONS

**PEDESTRIAN RAMP.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.16-P, and Chapter 11B, Section 1102B.

**PEDESTRIAN WAY.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A, 16-P, and Chapter 11B, Section 1102B.

**PENETRATION FIRESTOP.** See Section 702.1.

**PENTHOUSE.** See Section 1502.1.

**PERMANENT** [DSA-AC] shall mean facilities which, are intended to be used for periods longer than those designated in this code under the definition of "Temporary."

**PERMANENT PORTABLE BUILDING** [SFM] is a portable building that is used to serve or house students and is certified as a permanent building on a new public school campus by the public school administration shall comply with the requirements of new campus buildings.

**PERMIT.** An official document or certificate issued by the authority having jurisdiction which authorizes performance of a specified activity.

**PERSON.** An individual, heirs, executors, administrators or assigns, and also includes a firm, partnership or corporation, its or their successors or assigns, or the agent of any of the aforesaid.

**PERSONAL CARE SERVICE.** See Section 310.2.

**PERSONS WITH DISABILITIES.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.16-P.

**PHOTOLUMINESCENT.** [SFM] See Section 1002.

[F] **PHYSICAL HAZARD.** See Section 307.2.

[F] **PHYSIOLOGICAL WARNING THRESHOLD LEVEL.** See Section 415.2.

**PIER FOUNDATIONS.** See Section 1808.1.

**Belled piers.** See Section 1808.1.

**PILE FOUNDATIONS.** See Section 1808.1.

**Auger uncased piles.** See Section 1808.1.

**Caisson piles.** See Section 1808.1.

**Concrete-filled steel pipe and tube piles.** See Section 1808.1.

**Driven uncased piles.** See Section 1808.1.

**Enlarged base piles.** See Section 1808.1.

**Steel-cased piles.** See Section 1808.1.

**Timber piles.** See Section 1808.1.

**PINRAIL.** See Section 410.2.

**PLASTIC, APPROVED.** See Section 2602.1.

**PLASTIC GLAZING.** See Section 2602.1.

**PLASTIC HINGE.** See Section 2102.1.

**PLATFORM.** See Section 410.2.

LA **PLUMBING CODE.** The Los Angeles City Plumbing Code,  
LA Article 4, Chapter IX of the Los Angeles Municipal Code.

**PORTABLE BUILDING** [SFM] is a classroom building or structure of modular design and construction that houses and/or serves students from kindergarten through twelfth

grade (K-12) and is funded pursuant to the Education Code, commencing with Section 17070.10 and meets all of the following criteria:

- The portable building or structure is designed and constructed to be relocatable and transportable over public streets.
- The portable building or structure is designed and constructed for relocation without detaching the roof or the floor from the building or structure.
- The portable building or structure is sited upon a temporary foundation in a manner that is designed to permit easy removal.
- The portable building or structure has a floor area of 2,000 square feet (186 m<sup>2</sup>) or less when measured from the extent of the exterior walls.
- The portable building shall be removed within three years of installation or the school administration may request a three-year extension pursuant to Education Code Section 17074.54(a) and (b).

**POSITIVE ROOF DRAINAGE.** See Section 1502.1.

**POWDER ROOM.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.16-P.

**POWER-ASSISTED DOOR** [DSA-AC] is a door used for human passage with a mechanism that helps to open the door, or relieves the opening resistance of a door, upon the activation of a switch or a continued force applied to the door itself.

**PREFABRICATED WOOD I-JOIST.** See Section 2302.1.

**PRESERVATIVE-TREATED WOOD.** See Section 2302.1.

**PRESTRESSED MASONRY.** See Section 2102.1.

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

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

**PRIMARY FUNCTION.** See Section 3402.1.

**PRISM.** See Section 2102.1.

**PROFESSIONAL OFFICE OF A HEALTH CARE PROVIDER.** [DSA-AC] See Chapter 11B, Section 1102B.

**PROSCENIUM WALL.** See Section 410.2.

**PROTECTIVE SOCIAL CARE** [SFM] is the housing and care of any person of any age when such person is referred to or placed within such home or facility for care and supervision services by any governmental agency.

**PUBLIC ACCOMMODATION** [DSA-AC, HCD 1 & HCD 2] includes, but is not limited to, any building or facility or other specific public use facilities not listed in Items 1 through 12 if they fall into one or more of the following categories:

1. Places of public lodging.
2. Establishments serving food or drink open to public use.
3. Places of exhibition or entertainment open to public use.
4. Places of public gathering.

5. Sales or rental establishments open to public use.
6. Service establishments open to public use.
7. Stations used for public transportation.
8. Places of public display or collection.
9. Places of public recreation.
10. Places of public education.
11. Social service center establishments open to the general public.
12. Places of exercise or recreation open to public use.

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

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

**PUBLIC ENTRANCE [HCD 1-AC]** is an entrance that is not a service entrance or a restricted entrance.

**PUBLIC-USE AREAS. [DSA-AC & HCD 1-AC]** See Chapter 11A, Section 1107A.16-P, and Chapter 11B, Section 1102B.

**PUBLIC WAY.** See Section 1002.1.

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

**[F] PYROPHORIC.** See Section 307.2.

**[F] PYROTECHNIC COMPOSITION.** See Section 307.2.

**QUALIFIED HISTORICAL BUILDING (or PROPERTY). [DSA-AC]** See C.C.R. Title 24, Part 8.

**RAIL TRANSIT BOARDING PLATFORM. [DSA-AC]** See "transit boarding platform" in Chapter 11B, Section 1102B.

**RAMP.** See Section 1002.1.

**[DSA-AC & HCD 1-AC]** See Chapter 11A, Section 1107A.18-R.

**RAMP-ACCESS OPEN PARKING GARAGES.** See Section 406.3.2.

**REASONABLE PORTION [DSA-AC]** shall mean that segment of a building, facility, area, space or condition, which would normally be necessary if the activity therein is to be accessible by persons with disabilities.

**RECOMMEND [DSA-AC, HCD 1 & HCD 2]** does not require mandatory acceptance, but identifies a suggested action that shall be considered for the purpose of providing a greater degree of accessibility to persons with disabilities.

**[F] RECORD DRAWINGS.** See Section 902.1.

**REFERENCE RESISTANCE (D ).** See Section 2302.1.

**REGISTERED DESIGN PROFESSIONAL.** An individual who is registered or licensed to practice their respective design profession as defined by the statutory requirements of the professional registration laws of the state or jurisdiction in which the project is to be constructed.

**REINFORCED PLASTIC, GLASS FIBER.** See Section 2602.1.

**RELIGIOUS WORSHIP, PLACE OF.** A building or portion thereof intended for the performance of religious services.

**REMODELING. [DSA-AC]** See "Alteration or Alter."

**REPAIR.** The reconstruction or renewal of any part of an existing building for the purpose of its maintenance.

**REQUIRED STRENGTH.** See Sections 1602.1 and 2102.1.

**REROOFING.** See Section 1502.1.

**RESIDENTIAL AIRCRAFT HANGAR.** See Section 412.3.1.

**RESIDENTIAL CARE/ASSISTED LIVING FACILITIES.** See Section 310.2.

**RESIDENTIAL CARE FACILITY FOR THE CHRONICALLY ILL (RCF/CI).** See Section 310.

**RESIDENTIAL CARE FACILITY FOR THE ELDERLY (RCFE).** See Section 310.

**RESIDENTIAL FACILITY (RF).** See Section 310.

## DEFINITIONS

**RESISTANCE FACTOR.** See Section 1602.1.

**RESTRAINT [SFM]** shall mean the physical retention of a person within a room, cell or cell block by any means, or within the exterior walls of a building by means of locked doors inoperable by the person restrained. "Restraint" shall also mean the physical binding, strapping or similar restriction of any person in a chair, walker, bed or other contrivance for the purpose of deliberately restricting the free movement of ambulatory persons.

"Restraint" shall not be construed to include nonambulatory persons nor shall it include the use of bandage material, strip sheeting or other fabrics or materials (soft ties) used to restrain persons in hospital-type beds or wheelchairs to prevent injury, provided an approved method of quick release is maintained. Facilities employing the use of soft ties, however, shall be classified as a building used to house nonambulatory persons.

"Restraint" shall not be practiced in licensed facilities classified as Group I-1, R-3.1 and R-4 occupancies unless constructed as a Group I-3 occupancy. For Group I-3 occupancies see Section 308.2.

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

**RETRACTABLE AWNING.** See Section 3105.2.

**RISER. [DSA-AC, HCD 1 & HCD 2]** See Chapter 11A, Section 1107A.18-R, and Chapter 11B, Section 1102B.

**ROOF ASSEMBLY.** See Section 1502.1.

**ROOF COVERING.** See Section 1502.1.

**ROOF COVERING SYSTEM.** See Section 1502.1.

**ROOF DECK.** See Section 1502.1.

**ROOF RECOVER.** See Section 1502.1.

**ROOF REPAIR.** See Section 1502.1.

**ROOF REPLACEMENT.** See Section 1502.1.

**ROOF VENTILATION.** See Section 1502.1.

**ROOFTOP STRUCTURE.** See Section 1502.1.

**RUBBLE MASONRY.** See Section 2102.1.

**Coursed rubble.** See Section 2102.1.

**Random rubble.** See Section 2102.1.

**Rough or ordinary rubble.** See Section 2102.1.

**RUNNING BOND.** See Section 2102.1.

**RUNNING SLOPE. [DSA-AC]** See Chapter 11B, Section 1102B.

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

**SCISSOR STAIR.** See Section 1002.1.

**SCUPPER.** See Section 1502.1.

**SEISMIC DESIGN CATEGORY.** See Section 1613.2.

**SEISMIC-FORCE-RESISTING SYSTEM.** See Section 1613.2.

**SELF-CLOSING.** See Section 702.1.

**SELF-LUMINOUS.** See Section 1002.

**[F] SERVICE CORRIDOR.** See Section 415.2.

**SERVICE ENTRANCE [HCD 1-AC]** is an entrance intended primarily for the delivery of goods or services.

**SHAFT.** See Section 702.1.

**SHAFT ENCLOSURE.** See Section 702.1.

**SHALL [DSA-AC]** as used in this code means mandatory.

**SHEAR WALL.** See Sections 2102.1 and 2302.1.

**Detailed plain masonry shear wall.** See Section 2102.1.

**Intermediate prestressed masonry shear wall.** See Section 2102.1.

**Intermediate reinforced masonry shear wall.** See Section 2102.1.

**Ordinary plain masonry shear wall.** See Section 2102.1.

**Ordinary plain prestressed masonry shear wall.** See Section 2102.1.

**Ordinary reinforced masonry shear wall.** See Section 2102.1.

**Perforated shear wall.** See Section 2302.1.

**Perforated shear wall segment.** See Section 2302.1.

**Special prestressed masonry shear wall.** See Section 2102.1.

**Special reinforced masonry shear wall.** See Section 2102.1.

**SHELL.** See Section 2102.1.

**SHOPPING CENTER (or SHOPPING MALL). [DSA-AC & HCD 2]** See Chapter 11B, Section 1102B.

**SHOULD. [DSA-AC, HCD 1 & HCD 2]** See "Recommend."

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

**SIGNAGE [DSA-AC]** is displayed verbal, symbolic, tactile, and/or pictorial information.

**SINGLE-ACCOMMODATION SANITARY FACILITY [DSA-AC, HCD 1 & HCD 2]** is a room that has not more than one of each type of sanitary fixture, is intended for use by only one person at a time, has no partition around the toilet and has a door that can be locked on the inside by the room occupant.

**SINGLE-PLY MEMBRANE.** See Section 1502.1.

**[F] SINGLE-STATION SMOKE ALARM.** See Section 902.1.

**SITE** [DSA-AC, HCD 1 & HCD 2] is a parcel of land bounded by a property line or a designated portion of a public right-of-way.

**SITE CLASS.** See Section 1613.2.

**SITE COEFFICIENTS.** See Section 1613.2.

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

**SKYLIGHT, UNIT.** A factory-assembled, glazed fenestration unit, containing one panel of glazing material that allows for natural lighting through an opening in the roof assembly while preserving the weather-resistant barrier of the roof.

**SKYLIGHTS AND SLOPED GLAZING.** Glass or other transparent or translucent glazing material installed at a slope of 15 degrees (0.26 rad) or more from vertical. Glazing material in skylights, including unit skylights, solariums, sunrooms, roofs and sloped walls, are included in this definition.

**SLEEPING ACCOMMODATIONS.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.19-S, and Chapter 11B, Section 1102B.

**SLEEPING UNIT.** A room or space in which people sleep, which can also include permanent provisions for living, eating, and either sanitation or kitchen facilities but not both. Such rooms and spaces that are also part of a dwelling unit are not sleeping units.

**SLOPE.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.19-S.

[F] **SMOKE ALARM.** See Section 902.1.

**SMOKE BARRIER.** See Section 702.1.

**SMOKE COMPARTMENT.** See Section 702.1.

**SMOKE DAMPER.** See Section 702.1.

[F] **SMOKE DETECTOR.** See Section 902.1.

**SMOKE-DEVELOPED INDEX.** See Section 802.1.

**SMOKE-PROTECTED ASSEMBLY SEATING.** See Section 1002.1.

**SMOKEPROOF ENCLOSURE.** See Section 902.1.

[F] **SOLID.** See Section 415.2.

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

**SPACE** [DSA-AC & HCD 2] is a definable area, e.g., a room, toilet room, hall, assembly area, entrance, storage room, alcove, courtyard, or lobby.

**SPECIAL ACCESS LIFT.** [DSA-AC & HCD-1AC] See Chapter 11A, Section 1107A.19-S, and Chapter 11B, Section 1102B.

**SPECIAL AMUSEMENT BUILDING.** See Section 411.2.

**SPECIAL INSPECTION.** See Section 1702.1.

Special inspection, continuous. See Section 1702.1.

Special inspection, periodic. See Section 1702.1.

**SPECIAL FLOOD HAZARD AREA.** See Section 1612.2.

**SPECIFIED.** See Section 2102.1.

**SPECIFIED COMPRESSIVE STRENGTH OF MASONRY ( $f'_m$ ).** See Section 2102.1.

**SPECIFIED PUBLIC TRANSPORTATION.** [DSA-AC] See Chapter 11B, Section 1102B.

**SPLICE.** See Section 702.1.

**SPRAYED FIRE-RESISTANT MATERIALS.** See Section 1702.1.

**STACK BOND.** See Section 2102.1.

**STAGE.** See Section 410.2.

**STAIR.** See Section 1002.1.

**STAIRWAY.** See Section 1002.1.

**STAIRWAY, EXTERIOR.** See Section 1002.1.

**STAIRWAY, INTERIOR.** See Section 1002.1.

**STAIRWAY, SPIRAL.** See Section 1002.1.

[F] **STANDPIPE SYSTEM, CLASSES OF.** See Section 902.1.

Class I system. See Section 902.1.

Class II system. See Section 902.1.

Class III system. See Section 902.1.

[F] **STANDPIPE, TYPES OF.** See Section 902.1.

Automatic dry. See Section 902.1.

Automatic wet. See Section 902.1.

Manual dry. See Section 902.1.

Manual wet. See Section 902.1.

Semiautomatic dry. See Section 902.1.

**START OF CONSTRUCTION.** See Section 1612.2.

**STATE-OWNED/LEASED BUILDING [SFM]** is a building or portion of a building that is owned, leased or rented by the state. State-leased buildings shall include all required exits to a public way serving such leased area or space. Portions of state-leased buildings that are not leased or rented by the state shall not be included within the scope of this section unless such portions present an exposure hazard to the state-leased area or space.

**STEEL CONSTRUCTION, COLD-FORMED.** See Section 2202.1.

**STEEL JOIST.** See Section 2202.1.

**STEEL MEMBER, STRUCTURAL.** See Section 2202.1.

**STEEP SLOPE.** A roof slope greater than two units vertical in 12 units horizontal (17-percent slope).

**STONE MASONRY.** See Section 2102.1.

Ashlar stone masonry. See Section 2102.1.

Rubble stone masonry. See Section 2102.1.

[F] **STORAGE, HAZARDOUS MATERIALS.** See Section 415.2.

**DEFINITIONS**

**STORY.** The portion of a building included between the upper surface of a floor and the upper surface of the floor or roof next above (also see "Mezzanine" and Section 502.1). It is measured as the vertical distance from top to top of two successive tiers of beams or finished floor surfaces and, for the topmost story, from the top of the floor finish to the top of the ceiling joists, or where there is not a ceiling, to the top of the roof rafters.

[DSA-AC] See Chapter 11B, Section 1102B.

**STORY ABOVE GRADE PLANE.** Any story having its finished floor surface entirely above grade plane, except that a basement shall be considered as a story above grade plane where the finished surface of the floor above the basement is:

1. More than 6 feet (1829 mm) above grade plane; or
2. More than 12 feet (3658 mm) above the finished ground level at any point.

**STORY, FIRST.** [DSA-AC] See Chapter 11B, Section 1102B.

**STRENGTH.** See Section 2102.1.

**Design strength.** See Section 2102.1.

**Nominal strength.** See Sections 1602.1 and 2102.1.

**Required strength.** See Sections 1602.1 and 2102.1.

**STRENGTH DESIGN.** See Section 1602.1.

**STRUCTURAL COMPOSITE LUMBER.** See Section 2302.1.

**Laminated veneer lumber (LVL).** See Section 2302.1.

**Parallel strand lumber (PSL).** See Section 2302.1.

**STRUCTURAL FRAME.** [DSA-AC] See Chapter 11B, Section 1102B.

**STRUCTURAL GLUED-LAMINATED TIMBER.** See Section 2302.1.

**STRUCTURAL OBSERVATION.** See Section 1702.1.

**STRUCTURE.** That which is built or constructed.

**SUBDIAPHRAGM.** See Section 2302.1.

**SUBSTANTIAL DAMAGE.** See Section 1612.2.

**SUBSTANTIAL IMPROVEMENT.** See Section 1612.2.

**SUNROOM ADDITION.** See Section 1202.1.

LA **SUPERINTENDENT OF BUILDING.** The General Manager of the Department of Building and Safety of the City of LA Los Angeles or a duly authorized representative.

[F] **SUPERVISING STATION.** See Section 902.1.

[F] **SUPERVISORY SERVICE.** See Section 902.1.

[F] **SUPERVISORY SIGNAL.** See Section 902.1.

[F] **SUPERVISORY SIGNAL-INITIATING DEVICE.** See Section 902.1.

**SWIMMING POOLS.** See Section 3109.2.

**T RATING.** See Section 702.1.

**TACTILE** [DSA-AC & HCD 2] describes an object that can be perceived using the sense of touch.

**TECHNICALLY INFEASIBLE.** See Section 3402.

[DSA-AC] "Technically infeasible" means, with respect to an alteration of a building or a facility, that it has little likelihood of being accomplished because existing structural conditions would require removing or altering a load-bearing member which is an essential part of the structural frame; or because other existing physical or site constraints prohibit modification or addition of elements, spaces or features which are in full and strict compliance with the minimum requirements for new construction and which are necessary to provide accessibility.

**TEMPORARY.** Shall mean buildings and facilities intended for use at one location for not more than 120 days and seats intended for use at one location for not more than 90 days.

**TEMPORARY** [DSA-AC] shall mean buildings and facilities intended for use at one location for not more than one year and seats intended for use at one location for not more than 90 days.

**TENT.** Any structure, enclosure or shelter which is constructed of canvas or pliable material supported in any manner except by air or the contents it protects.

**TERMINALLY ILL.** See Section 310.

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

**TEXT TELEPHONE.** [DSA-AC] See Chapter 11B, Section 1102B.

**THERMAL ISOLATION.** See Section 1202.1.

**THERMOPLASTIC MATERIAL.** See Section 2602.1.

**THERMOSETTING MATERIAL.** See Section 2602.1.

**THIN-BED MORTAR.** See Section 2102.1.

**THROUGH PENETRATION.** See Section 702.1.

**THROUGH-PENETRATION FIRESTOP SYSTEM.** See Section 702.1.

**TIE-DOWN (HOLD-DOWN).** See Section 2302.1.

**TIE, LATERAL.** See Section 2102.1.

**TIE, WALL.** See Section 2102.1.

**TILE.** See Section 2102.1.

**TILE, STRUCTURAL CLAY.** See Section 2102.1.

[F] **TIRES, BULK STORAGE OF.** See Section 902.1.

**TOEBOARD.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.20-T.

**TOWNHOUSE.** A single-family dwelling unit constructed in a group of three or more attached units in which each unit extends from the foundation to roof and with open space on at least two sides.

[DSA-AC & HCD 1-AC] For applications required to provide accommodations for persons with disabilities, see Chapter 11A, Section 1107A.20-T.

[F] **TOXIC.** See Section 307.2.

**TRANSIENT.** See Section 310.2.

**TRANSIENT LODGING.** [DSA-AC & HCD 1-AC] See Chapter 11B, Section 1102B and Chapter 11A, Section 1107A.20-T.

**TRANSIT BOARDING PLATFORM.** [DSA-AC] See Chapter 11B, Section 1102B.

**TREAD.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.20-T, and Chapter 11B, Section 1102B.

**TREAD DEPTH.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.20-T, and Chapter 11B, Section 1102B.

**TREAD RUN.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.20-T, and Chapter 11B, Section 1102B.

**TREATED WOOD.** See Section 2302.1.

**TRIM.** See Section 802.1.

[F] **TROUBLE SIGNAL.** See Section 902.1.

**TYPE OF MOTOR FUEL.** [DSA-AC] See Chapter 11C, Section 1101C.1.

**UNDERLAYMENT.** See Section 1502.1.

**UNREASONABLE HARDSHIP** [DSA-AC] exists when the enforcing agency finds that compliance with the building standard would make the specific work of the project affected by the building standard unfeasible, based on an overall evaluation of the following factors:

1. The cost of providing access.
2. The cost of all construction contemplated.
3. The impact of proposed improvements on financial feasibility of the project.
4. The nature of the accessibility which would be gained or lost.
5. The nature of the use of the facility under construction and its availability to persons with disabilities.

The details of any finding of unreasonable hardship shall be recorded and entered in the files of the enforcing agency.

[F] **UNSTABLE (REACTIVE) MATERIAL.** See Section 307.2.

Class 4. See Section 307.2.

Class 3. See Section 307.2.

Class 2. See Section 307.2.

Class 1. See Section 307.2.

[F] **USE (MATERIAL).** See Section 415.2.

**VAPOR-PERMEABLE MEMBRANE.** A material or covering having a permeance rating of 5 perms ( $52.9 \times 10^{-10}$  kg/Pa · s · m<sup>2</sup>) or greater, when tested in accordance with the desiccant method using Procedure A of ASTM E 96. A vapor-permeable material permits the passage of moisture vapor.

**VAPOR RETARDER.** A vapor-resistant material, membrane or covering such as foil, plastic sheeting or insulation facing having a permeance rating of 1 perm ( $5.7 \times 10^{-11}$  kg/Pa · s · m<sup>2</sup>) or less, when tested in accordance with the desiccant method using Procedure A of ASTM E 96. Vapor retarders limit the

amount of moisture vapor that passes through a material or wall assembly.

**VEHICLE BARRIER SYSTEM.** See Section 1602.1.

**VEHICULAR OR PEDESTRIAN ARRIVAL POINTS.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.22-V.

**VEHICULAR WAY.** [DSA-AC] See Chapter 11B, Section 1102B.

**VENEER.** See Section 1402.1.

**VENTILATION.** The natural or mechanical process of supplying conditioned or unconditioned air to, or removing such air from, any space.

**VERY HIGH FIRE HAZARD SEVERITY ZONE (VHFHSZ).** A Fire District in the City of Los Angeles established by the Board of Forestry and the Office of the State Fire Marshal and described in Chapter 72.

**VINYL SIDING.** See Section 1402.1.

[F] **VISIBLE ALARM NOTIFICATION APPLIANCE.** See Section 902.1.

**WAITING ROOM** [SFM] is a room or area normally provided with seating and used for persons waiting.

**WALK.** [DSA-AC & HCD 1-AC] See Chapter 11A, Section 1107A.23-W, and Chapter 11B, Section 1102B.

**WALKWAY, PEDESTRIAN.** A walkway used exclusively as a pedestrian trafficway.

**WALL.** See Section 2102.1.

**Cavity wall.** See Section 2102.1.

**Composite wall.** See Section 2102.1.

**Dry-stacked, surface-bonded wall.** See Section 2102.1.

**Masonry-bonded hollow wall.** See Section 2102.1.

**Parapet wall.** See Section 2102.1.

**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 wall that supports more than 200 pounds per linear foot (2919 N/m) of vertical load in addition to its own weight.

**WALL, NONLOAD-BEARING.** Any wall that is not a load-bearing wall.

**WALL PIER.** See Section 1908.1.3.

[F] **WATER-REACTIVE MATERIAL.** See Section 307.2.

Class 3. See Section 307.2.

Class 2. See Section 307.2.

Class 1. See Section 307.2.

**WATER-RESISTIVE BARRIER.** See Section 1402.

**WEATHER-EXPOSED SURFACES.** See Section 2502.1.

**WEB.** See Section 2102.1.

## DEFINITIONS

[F] WET-CHEMICAL EXTINGUISHING SYSTEM. See Section 902.1.

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

*WHEELCHAIR OCCUPANT (or WHEELCHAIR USER) [DSA-AC] is an individual who, due to a physical impairment or disability, utilizes a wheelchair for mobility.*

*WHEELCHAIR SPACE [HCD 1-AC] is space for a single wheelchair and its occupant.*

WIND-BORNE DEBRIS REGION. See Section 1609.2.

WINDER. See Section 1002.1.

WINERY CAVES. See Section 436.

WIRE BACKING. See Section 2502.1.

[F] WIRELESS PROTECTION SYSTEM. See Section 902.1.

WOOD SHEAR PANEL. See Section 2302.1.

WOOD STRUCTURAL PANEL. See Section 2302.1.

Composite panels. See Section 2302.1.

Oriented strand board (OSB). See Section 2302.1.

Plywood. See Section 2302.1.

[F] WORKSTATION. See Section 415.2.

*[DSA-AC] See Chapter 11B, Section 1102B.*

WYTHE. See Section 2102.1.

YARD. An open space, other than a court, unobstructed from the ground to the sky, except where specifically provided by this code, on the lot on which a building is situated.

[F] ZONE. See Section 902.1.





4. *[HCD-1] When a passive solar energy collector is designed as a conditioned area it shall comply with the California Energy Code, Title 24, Part 6. Nonconditioned passive solar energy collectors are exempt from Title 24, Part 6.*

**SECTION 1205  
LIGHTING**

**1205.1 General.** Every space intended for human occupancy shall be provided with natural light by means of exterior glazed openings in accordance with Section 1205.2 or shall be provided with artificial light in accordance with Section 1205.3. Exterior glazed openings shall open directly onto a public way or onto a yard or court in accordance with Section 1206.

*[HCD 1] Glazed openings may open into a passive solar energy collector provided the area of exterior glazed opening in the passive solar energy collector is increased to compensate for the area required by the interior space.*

**1205.2 Natural light.** The minimum net glazed area shall not be less than 8 percent of the floor area of the room served.

**1205.2.1 Adjoining spaces.** For the purpose of natural lighting, any room is permitted to be considered as a portion of an adjoining room where one-half of the area of the common wall is open and unobstructed and provides an opening of not less than one-tenth of the floor area of the interior room or 25 square feet (2.32 m<sup>2</sup>), whichever is greater.

**Exception:** Openings required for natural light shall be permitted to open into a thermally isolated sunroom addition or patio cover where the common wall provides a glazed area of not less than one-tenth of the floor area of the interior room or 20 square feet (1.86 m<sup>2</sup>), whichever is greater.

**1205.2.2 Exterior openings.** Exterior openings required by Section 1205.2 for natural light shall open directly onto a public way, yard or court, as set forth in Section 1206.

**Exceptions:**

1. Required exterior openings are permitted to open into a roofed porch where the porch:
  - 1.1. Abuts a public way, yard or court.
  - 1.2. Has a ceiling height of not less than 7 feet (2134 mm).
  - 1.3. Has a longer side at least 65 percent open and unobstructed.
2. Skylights are not required to open directly onto a public way, yard or court.

**1205.3 Artificial light.** Artificial light shall be provided that is adequate to provide an average illumination of 10 foot-candles (107 lux) over the area of the room at a height of 30 inches (762 mm) above the floor level.

**1205.4 Stairway illumination.** Stairways within dwelling units and exterior stairways serving a dwelling unit shall have an illumination level on tread runs of not less than 1 foot-candle (11 lux). Stairs in other occupancies shall be governed by Chapter 10.

**1205.4.1 Controls.** The control for activation of the required stairway lighting shall be in accordance with the California Electrical Code.

**1205.5 Emergency egress lighting.** The means of egress shall be illuminated in accordance with Section 1006.1.

**1205.6 Campus lighting for parking facilities and primary walkways at California state universities, colleges and community colleges.** *[BSC] Artificial light shall be provided for parking facilities and primary walkways at California state universities, colleges, and community colleges in accordance with provisions of this subsection. This subsection shall not apply to the University of California unless the Regents of the University of California, by resolution, make it applicable.*

**1205.6.1 Light requirements.** *Based on the recommendations of the most current edition of the Illuminating Engineering Society Lighting Handbook, for the following lighting standards shall be used for all new construction of open parking facilities, covered parking facilities and primary walkways.*

1. *Open and covered parking facilities.*
  - 1.1. *Medium-level activity usage when medium usage is present.*
  - 1.2. *High-level activity usage when high usage is present.*
2. *Primary campus walkways.*
  - 2.1. *Medium-level activity usage when medium usage is present.*
  - 2.2. *High-level activity usage when high usage is present.*

**SECTION 1206  
YARDS OR COURTS**

**1206.1 General.** This section shall apply to yards and courts adjacent to exterior openings that provide natural light or ventilation. Such yards and courts shall be on the same property as the building.

**1206.2 Yards.** Yards shall not be less than 3 feet (914 mm) in width for one- and two-story buildings. For buildings more than two stories in height, the minimum width of the yard shall be increased at the rate of 1 foot (305 mm) for each additional story. For buildings exceeding 14 stories in height, the required width of the yard shall be computed on the basis of 14 stories.

**1206.3 Courts.** Courts shall not be less than 3 feet (914 mm) in width. Courts having windows opening on opposite sides shall not be less than 6 feet (1829 mm) in width. Courts shall not be less than 10 feet (3048 mm) in length unless bounded on one end by a public way or yard. For buildings more than two stories in height, the court shall be increased 1 foot (305 mm) in width and 2 feet (310 mm) in length for each additional story. For buildings exceeding 14 stories in height, the required dimensions shall be computed on the basis of 14 stories.

**1206.3.1 Court access.** Access shall be provided to the bottom of courts for cleaning purposes.

**1206.3.2 Air intake.** Courts more than two stories in height shall be provided with a horizontal air intake at the bottom not less than 10 square feet (0.93 m<sup>2</sup>) in area and leading to the exterior of the building unless abutting a yard or public way.

**1206.3.3 Court drainage.** The bottom of every court shall be properly graded and drained to a public sewer or other approved disposal system complying with the *California Plumbing Code*.

**SECTION 1207 [HCD]  
SOUND TRANSMISSION**

**1207.1 Purpose and scope.** The purpose of this section is to establish uniform minimum noise insulation performance standards to protect persons within new hotels, motels, dormitories, residential care facilities, apartment houses, dwellings, private schools, and places of worship from the effects of excessive noise, including but not limited to, hearing loss or impairment and interference with speech and sleep.

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

**SOUND TRANSMISSION CLASS (STC)** is a single-number rating used to compare walls, floor-ceiling assemblies and doors for their sound-insulating properties with respect to speech and small household appliance noise. The STC is derived from laboratory measurements of sound transmission loss across a series of 16 test bands.

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

**FIELD SOUND TRANSMISSION CLASS (FSTC)** is a single-number rating similar to STC, except that the transmission loss values used to derive the FSTC are measured in the field. All sound transmitted from the source room to the receiving room is assumed to be through the separating wall or floor-ceiling assembly.

This section does not require determination of the FSTC, and field-measured values of noise reduction should not be reported as transmission loss.

**IMPACT INSULATION CLASS (IIC)** is a single-number rating used to compare the effectiveness of floor-ceiling assemblies in providing reduction of impact-generated sounds such as footsteps. The IIC is derived from laboratory measurements of impact sound pressure level across a series of 16 test bands using a standardized tapping machine. Laboratory IIC ratings should be used to the greatest extent possible in determining that the design complies with this section.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**1207.4 Complaints.** Where a complaint as to noncompliance with this chapter requires a field test, the complainant shall post a bond or adequate funds in escrow for the cost of said

testing. Such costs shall be chargeable to the complainant if the field tests show compliance with this chapter. If the tests show noncompliance, testing costs shall be borne to the owner or builder.

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

**1207.6 Interdwelling sound transmission control.**

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

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

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

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

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

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

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

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

**1207.8 Impact sound insulation.** *All acoustically rated separating floor-ceiling assemblies shall provide impact sound insulation equal to that required to meet a IIC rating of 50 based on laboratory tests as defined in ASTM E 492 and E 989. Field-tested assemblies shall meet a field impact insulation class (FIIC) rating of 45 for both occupied and unoccupied units as defined in ASTM E 1007 and E 989, with the exception that the measured impact sound pressure levels shall not be*

*normalized to a standard amount of absorption in the receiving room.*

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

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

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

*For field testing, rooms should ideally be large and reverberant for reliable measurements to be made in all test bands. This is often not possible for bathrooms, kitchens, hallways or rooms with large amounts of sound-absorptive materials. Field test results should, however, report the measured values in all bands, noting those which do not meet relevant ASTM criteria for diffusion.*

*It should be noted that STC ratings do not adequately characterize the sound insulation of construction assemblies when the intruding noise is predominantly low-pitched, as is often produced by amplified music or by large pieces of mechanical equipment.*

*It should also be noted that the transmission of impact sound from a standardized tapping machine may vary considerably for a given design due to differences in specimen size, flanking transmission through associated structure and the acoustical response of the room below. Laboratory IIC values should therefore be used with caution when estimating the performance of hard-surfaced floors in the field. Additionally, IIC ratings may not always be adequate to characterize the subjectively annoying creak or boom generated by footfalls on a lumber floor.*

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

**1207.11 Exterior sound transmission control.**

**1207.11.1 Application consistent with local land-use standards.** *All structures identified in Section 1207.1 located in noise critical areas, such as proximity to highways, county roads, city streets, railroads, rapid transit lines, airports or industrial areas shall be designed to prevent*

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**CHAPTER 13**  
**ENERGY CONSERVATION**

**SECTION 1300**  
**GENERAL**

LA In order to comply with the purpose of this Chapter, buildings  
LA shall be designed to comply with requirements of Part 6, Title  
LA 24 of the *California Building Standards Code—California*  
LA *Energy Code*, 1998 Edition.

**SECTION 1301**  
**SOLAR ENERGY COLLECTORS**

LA Approved collectors which function as building components  
LA shall comply with the applicable provisions of the Code.

LA Approved collectors located above or upon a roof and not  
LA functioning as building components shall not reduce the  
LA required fire-resistance or fire-retardancy classification of the  
LA roof-covering materials.

**Exceptions:**

1. Approved collectors installed in one- and two-family dwellings outside the Very High Fire Hazard Severity Zone.
2. Approved noncombustible collectors located on buildings not over three stories in height or 9,000 square feet (836 m<sup>2</sup>) in total floor area.
3. Approved collectors that comply with the provisions of Section 2603.14 of this Code.



## CHAPTER 14

# EXTERIOR WALLS

### SECTION 1401 GENERAL

**1401.1 Scope.** The provisions of this chapter shall establish the minimum requirements for exterior walls; exterior wall coverings; exterior wall openings; exterior windows and doors; architectural trim; balconies and similar projections; and bay and oriel windows.

### SECTION 1402 DEFINITIONS

**1402.1 General.** The following words and terms shall, for the purposes of this chapter and as used elsewhere in this code, have the meanings shown herein.

**ADHERED MASONRY VENEER.** Veneer secured and supported through the adhesion of an approved bonding material applied to an approved backing.

**ANCHORED MASONRY VENEER.** Veneer secured with approved mechanical fasteners to an approved backing.

**BACKING.** The wall or surface to which the veneer is secured.

**EXTERIOR WALL.** A wall, bearing or nonbearing, that is used as an enclosing wall for a building, other than a fire wall, and that has a slope of 60 degrees (1.05 rad) or greater with the horizontal plane.

**EXTERIOR WALL COVERING.** A material or assembly of materials applied on the exterior side of exterior walls for the purpose of providing a weather-resisting barrier, insulation or for aesthetics, including but not limited to, veneers, siding, exterior insulation and finish systems, architectural trim and embellishments such as cornices, soffits, fascias, gutters and leaders.

**EXTERIOR WALL ENVELOPE.** A system or assembly of exterior wall components, including exterior wall finish materials, that provides protection of the building structural members, including framing and sheathing materials, and conditioned interior space, from the detrimental effects of the exterior environment.

**FIBER CEMENT SIDING.** A manufactured, fiber-reinforcing product made with an inorganic hydraulic or calcium silicate binder formed by chemical reaction and reinforced with organic or inorganic nonasbestos fibers, or both. Additives that enhance manufacturing or product performance are permitted. Fiber cement siding products have either smooth or textured faces and are intended for exterior wall and related applications.

**METAL COMPOSITE MATERIAL (MCM).** A factory-manufactured panel consisting of metal skins bonded to both faces of a plastic core.

**METAL COMPOSITE MATERIAL (MCM) SYSTEM.** An exterior wall finish system fabricated using MCM in a spe-

cific assembly including joints, seams, attachments, substrate, framing and other details as appropriate to a particular design.

**VENEER.** A facing attached to a wall for the purpose of providing ornamentation, protection or insulation, but not counted as adding strength to the wall.

**VINYL SIDING.** A shaped material, made principally from rigid polyvinyl chloride (PVC), that is used as an exterior wall covering.

**WATER-RESISTIVE BARRIER.** A material behind an exterior wall covering that is intended to resist liquid water that has penetrated behind the exterior covering from further intruding into the exterior wall assembly.

### SECTION 1403 PERFORMANCE REQUIREMENTS

**1403.1 General.** The provisions of this section shall apply to exterior walls, wall coverings and components thereof.

**1403.2 Weather protection.** Exterior walls shall provide the building with a weather-resistant exterior wall envelope. The exterior wall envelope shall include flashing, as described in Section 1405.3. The exterior wall envelope shall be designed and constructed in such a manner as to prevent the accumulation of water within the wall assembly by providing a water-resistive barrier behind the exterior veneer, as described in Section 1404.2, and a means for draining water that enters the assembly to the exterior. Protection against condensation in the exterior wall assembly shall be provided in accordance with the *California Energy Code, Section 150 of Title 24, Part 6*.

#### Exceptions:

1. A weather-resistant exterior wall envelope shall not be required over concrete or masonry walls designed in accordance with Chapters 19 and 21, respectively.
2. Compliance with the requirements for a means of drainage, and the requirements of Sections 1404.2 and 1405.3, shall not be required for an exterior wall envelope that has been demonstrated through testing to resist wind-driven rain, including joints, penetrations and intersections with dissimilar materials, in accordance with ASTM E 331 under the following conditions:
  - 2.1. Exterior wall envelope test assemblies shall include at least one opening, one control joint, one wall/eave interface and one wall sill. All tested openings and penetrations shall be representative of the intended end-use configuration.

- 2.2. Exterior wall envelope test assemblies shall be at least 4 feet by 8 feet (1219 mm by 2438 mm) in size.
- 2.3. Exterior wall envelope assemblies shall be tested at a minimum differential pressure of 6.24 pounds per square foot (psf) (0.297 kN/m<sup>2</sup>).
- 2.4. Exterior wall envelope assemblies shall be subjected to a minimum test exposure duration of 2 hours.

3. [OSHPD 1, 2 and 4] OSHPD regulated facilities are exempt from requirements of Title 24, Part 6.

The exterior wall envelope design shall be considered to resist wind-driven rain where the results of testing indicate that water did not penetrate control joints in the exterior wall envelope, joints at the perimeter of openings or intersections of terminations with dissimilar materials.

LA 1403.3 **Structural.** Exterior walls and the associated openings  
LA shall be designed and constructed to resist, safely, the superimposed loads required by Chapter 16 of this Code.  
LA  
LA

LA In no case shall veneer be considered as part of the wall in computing strength or deflection, nor shall it be considered a part of the required thickness of the wall. Deflection of lateral support of  
LA veneer, including wood studs, shall be no greater than h/500.  
LA

1403.4 **Fire resistance.** Exterior walls shall be fire-resistance rated as required by other sections of this code with opening protection as required by Chapter 7.

1403.5 **Flood resistance.** For buildings in flood hazard areas as established in Section 1612.3, exterior walls extending below the design flood elevation shall be resistant to water damage. Wood shall be pressure-preservative treated in accordance with AWPA U1 for the species, product and end use using a preservative listed in Section 4 of AWPA U1 or decay-resistant heartwood of redwood, black locust or cedar.

1403.6 **Flood resistance for high-velocity wave action areas.** For buildings in flood hazard areas subject to high-velocity wave action as established in Section 1612.3, electrical, mechanical and plumbing system components shall not be mounted on or penetrate through exterior walls that are designed to break away under flood loads.

**SECTION 1404  
MATERIALS**

1404.1 **General.** Materials used for the construction of exterior walls shall comply with the provisions of this section. Materials not prescribed herein shall be permitted, provided that any such alternative has been approved.

1404.2 **Water-resistive barrier.** A minimum of one layer of No.15 asphalt felt, complying with ASTM D 226 for Type 1 felt or other approved materials, shall be attached to the studs or sheathing, with flashing as described in Section 1405.3, in such a manner as to provide a continuous water-resistive barrier behind the exterior wall veneer.

1404.3 **Wood.** Exterior walls of wood construction shall be designed and constructed in accordance with Chapter 23.

1404.3.1 **Basic hardboard.** Basic hardboard shall conform to the requirements of AHA A135.4.

1404.3.2 **Hardboard siding.** Hardboard siding shall conform to the requirements of AHA A135.6 and, where used structurally, shall be so identified by the label of an approved agency.

1404.4 **Masonry.** Exterior walls of masonry construction shall be designed and constructed in accordance with this section and Chapter 21. Masonry units, mortar and metal accessories used in anchored and adhered veneer shall meet the physical requirements of Chapter 21. The backing of anchored and adhered veneer shall be of concrete, masonry, steel framing or wood framing.

1404.5 **Metal.** Exterior walls of formed steel construction, structural steel or lightweight metal alloys shall be designed in accordance with Chapters 22 and 20, respectively.

1404.5.1 **Aluminum siding.** Aluminum siding shall conform to the requirements of AAMA 1402.

1404.5.2 **Cold-rolled copper.** Copper shall conform to the requirements of ASTM B 370.

1404.5.3 **Lead-coated copper.** Lead-coated copper shall conform to the requirements of ASTM B 101.

1404.6 **Concrete.** Exterior walls of concrete construction shall be designed and constructed in accordance with Chapter 19.

1404.7 **Glass-unit masonry.** Exterior walls of glass-unit masonry shall be designed and constructed in accordance with Chapter 21.

1404.8 **Plastics.** Plastic panel, apron or spandrel walls as defined in this code shall not be limited in thickness, provided that such plastics and their assemblies conform to the requirements of Chapter 26 and are constructed of approved weather-resistant materials of adequate strength to resist the wind loads for cladding specified in Chapter 16.

1404.9 **Vinyl siding.** Vinyl siding shall be certified and labeled as conforming to the requirements of ASTM D 3679 by an approved quality control agency.

1404.10 **Fiber cement siding.** Fiber cement siding shall conform to the requirements of ASTM C 1186 and shall be so identified on labeling listing an approved quality control agency.

**SECTION 1405  
INSTALLATION OF WALL COVERINGS**

1405.1 **General.** Exterior wall coverings shall be designed and constructed in accordance with the applicable provisions of this section.

1405.1.1 **Additional requirements.** [DSA-SS & OSHPD 1, 2 and 4] In addition to the requirements of 1405.5, 1405.6, 1405.7, 1405.8 and 1405.9, the installation of anchored or adhered veneer shall comply with applicable provisions of Section 1408.

1405.2 **Weather protection.** Exterior walls shall provide weather protection for the building. The materials of the minimum nominal thickness specified in Table 1405.2 shall be acceptable as approved weather coverings.

**TABLE 1405.2  
MINIMUM THICKNESS OF WEATHER COVERINGS**

COVERING TYPE	MINIMUM THICKNESS (inches)
Adhered masonry veneer	0.25
Aluminum siding	0.019
Anchored masonry veneer	2.625
Asbestos-cement boards	0.125
Asbestos shingles	0.156
Cold-rolled copper <sup>d</sup>	0.0216 nominal
Copper shingles <sup>d</sup>	0.0162 nominal
Exterior plywood (with sheathing)	0.313
Exterior plywood (without sheathing)	See Section 2304.6
Fiber cement lap siding	0.25 <sup>c</sup>
Fiber cement panel siding	0.25 <sup>c</sup>
Fiberboard siding	0.5
Glass-fiber reinforced concrete panels	0.375
Hardboard siding <sup>c</sup>	0.25
High-yield copper <sup>d</sup>	0.0162 nominal
Lead-coated copper <sup>d</sup>	0.0216 nominal
Lead-coated high-yield copper	0.0162 nominal
Marble slabs	1
Particleboard (with sheathing)	See Section 2304.6
Particleboard (without sheathing)	See Section 2304.6
Precast stone facing	0.625
Steel (approved corrosion resistant)	0.0149
Stone (cast artificial)	1.5
Stone (natural)	2
Structural glass	0.344
Stucco or exterior portland cement plaster	
Three-coat work over:	
Metal plaster base	0.875 <sup>b</sup>
Unit masonry	0.625 <sup>b</sup>
Cast-in-place or precast concrete	0.625 <sup>b</sup>
Two-coat work over:	
Unit masonry	0.5 <sup>b</sup>
Cast-in-place or precast concrete	0.375 <sup>b</sup>
Terra cotta (anchored)	1
Terra cotta (adhered)	0.25
Vinyl siding	0.035
Wood shingles	0.375
Wood siding (without sheathing) <sup>a</sup>	0.5

For SI: 1 inch = 25.4 mm.

- a. Wood siding of thicknesses less than 0.5 inch shall be placed over sheathing that conforms to Section 2304.6.
- b. Exclusive of texture.
- c. As measured at the bottom of decorative grooves.
- d. 16 ounces per square foot for cold-rolled copper and lead-coated copper, 12 ounces per square foot for copper shingles, high-yield copper and lead-coated high-yield copper.

**1405.3 Flashing.** Flashing shall be installed in such a manner so as to prevent moisture from entering the wall or to redirect it to the exterior. Flashing shall be installed at the perimeters of exterior door and window assemblies, penetrations and terminations of exterior wall assemblies, exterior wall intersections with roofs, chimneys, porches, decks, balconies and similar projections and at built-in gutters and similar locations where moisture could enter the wall. Flashing with projecting flanges shall be installed on both sides and the ends of copings, under sills and continuously above projecting trim.

**1405.3.1 Exterior wall pockets.** In exterior walls of buildings or structures, wall pockets or crevices in which moisture can accumulate shall be avoided or protected with caps or drips, or other approved means shall be provided to prevent water damage.

**1405.3.2 Masonry.** Flashing and weep holes shall be located in the first course of masonry above finished ground level above the foundation wall or slab, and other points of support, including structural floors, shelf angles and lintels where anchored veneers are designed in accordance with Section 1405.5.

**1405.4 Wood veneers.** Wood veneers on exterior walls of buildings of Type I, II, III and IV construction shall be not less than 1 inch (25 mm) nominal thickness, 0.438-inch (11.1 mm) exterior hardboard siding or 0.375-inch (9.5 mm) exterior-type wood structural panels or particleboard and shall conform to the following:

1. The veneer shall not exceed three stories in height, measured from the grade plane. Where fire-retardant-treated wood is used, the height shall not exceed four stories.
2. The veneer is attached to or furred from a noncombustible backing that is fire-resistance rated as required by other provisions of this code.
3. Where open or spaced wood veneers (without concealed spaces) are used, they shall not project more than 24 inches (610 mm) from the building wall.

**1405.5 Anchored masonry veneer.** Anchored masonry veneer shall comply with the provisions of Sections 1405.5, 1405.6, 1405.7 and 1405.8 and Sections 6.1 and 6.2 of ACI 530/ASCE 5/TMS 402.

**1405.5.1 Tolerances.** Anchored masonry veneers in accordance with Chapter 14 are not required to meet the tolerances in Article 3.3 G1 of ACI 530.1/ASCE 6/TMS 602.

**1405.5.2 Seismic requirements.** Anchored masonry veneer located in Seismic Design Category C, E or F shall conform to the requirements of Section 6.2.2.10 of ACI 530/ASCE 5/TMS 402. Anchored masonry veneer located in Seismic Design Category D shall conform to the requirements for Seismic Design Category E or F.

**1405.6 Masonry or stone veneer.** Support of masonry and stone veneer shall be designed, unless the masonry or stone veneer complies with the following.

**1405.6.1 Masonry and stone units [5 inches (127 mm) maximum in thickness].** Masonry and stone veneer not exceeding 5 inches (127 mm) in thickness may be anchored

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directly to structural masonry, concrete or studs in one of the following manners:

1. Wall ties shall be corrosion resistant, made of sheet metal, have a minimum thickness of 0.0785 inch (2.00 mm) (No. 14 galvanized sheet gage) by 1 inch (25.4 mm) and shall be attached to the backing, as the veneer is laid, by minimum #10 hex head galvanized screws with penetration of at least 2 inches (51 mm) into the framing member, placed not more than 1/4-inch (6.35 mm) above the extended leg of the angle tie. Wall ties shall be spaced so as to support not more than 2 square feet (0.19 m<sup>2</sup>) of wall area but shall not be more than 24 inches (610 mm) on center horizontally. In Seismic Zone 4, wall ties shall have a lip or hook on the extended leg that will engage or enclose a horizontal joint reinforcement wire having a 0.148-inch (3.76 mm) diameter (No. 9 B.W. gage) or equivalent. The joint reinforcement shall be continuous with butt splices between ties permitted.

When applied over wood stud construction, the studs shall be spaced a maximum of 16 inches (406 mm) on center and approved paper, a minimum 30# fiberglass felt, 4-inch (102 mm) minimum on horizontal laps and 6-inch (152 mm) minimum on end laps shall first be applied over minimum 15/32-inch (12 mm) plywood sheathing, except as otherwise provided in Section 1402, and an air space of at least one inch (25 mm) shall be maintained between the backing and the veneer. Spot bedding at all ties shall be of cement mortar.

2. Veneer may be applied with a 1-inch minimum (25 mm) grouted backing space, which is reinforced by not less than 2-inch by 2-inch (51 mm by 51 mm) 0.065 of an inch thick (1.65 mm) (No. 16 B.W. gage) galvanized wire mesh placed over waterproof paper backing and anchored directly to stud construction. Construction shall not exceed a height of 4 feet (1219 mm) above grade.

The stud spacing shall not exceed 16 inches (406 mm) on center. The galvanized wire mesh shall be anchored to wood studs by galvanized steel wire furring nails at 4 inches (102 mm) on center or by barbed galvanized nails at 6 inches (152 mm) on center with a 1 1/8-inch minimum (29 mm) penetration. The galvanized wire mesh may be attached to steel studs by equivalent wire ties. If this method is applied over solid sheathing, the mesh shall be furred for embedment in grout. The wire mesh shall be attached at the top and bottom with not less than 8d common wire nails. The grout fill shall be placed to fill the space intimately around the mesh and veneer facing.

**1405.6.2 Stone units [10 inches (254 mm) maximum in thickness].** Stone veneer units not exceeding ten inches (254 mm) in thickness may be anchored directly to structural masonry or concrete. Anchor ties shall not be less than 0.109 inch (2.77 mm) (No. 12 B.W. gage) galvanized wire, or an approved equal, formed as an exposed eye and extending not less than 1/2 inch (12.7 mm) beyond the face of the backing. The legs of the loops shall not be less than 6 inches

(152 mm) in length bent at right angles and laid in the masonry mortar joint and spaced so that the eyes or loops are 12 inches (254 mm) maximum on center in both directions. There shall be provided not less than a 0.109-inch (2.77 mm) (No. 12 B.W. gage) galvanized wire tie, or approved equal, threaded through the exposed loops for every 2 square feet (0.19 m<sup>2</sup>) of stone veneer. This tie shall be a loop having legs not less than 15 inches (381 mm) in length bent so that it will lie in the stone veneer mortar joint. The last 2 inches (51 mm) of each wire leg shall have a right angle bend. One inch (25 mm) of cement grout shall be placed between the backing and the stone veneer.

**1405.7 Slab-type veneer.** Slab-type veneer units not exceeding 2 inches (51 mm) in thickness shall be anchored directly to masonry, concrete or stud construction. For veneer units of marble, travertine, granite or other stone units of slab form ties of corrosion-resistant dowels in drilled holes shall be located in the middle third of the edge of the units, spaced a maximum of 24 inches (610 mm) apart around the periphery of each unit with not less than four ties per veneer unit. Units shall not exceed 20 square feet (1.9 m<sup>2</sup>) in area. If the dowels are not tight fitting, the holes shall be drilled not more than 0.063 inch (1.6 mm) larger in diameter than the dowel, with the hole countersunk to a diameter and depth equal to twice the diameter of the dowel in order to provide a tight-fitting key of cement mortar at the dowel locations when the mortar in the joint has set. Veneer ties shall be corrosion-resistant metal capable of resisting, in tension or compression, a force equal to two times the weight of the attached veneer. If made of sheet metal, veneer ties shall be not smaller in area than 0.0336 by 1 inch (0.853 by 25 mm) or, if made of wire, not smaller in diameter than 0.1483-inch (3.76 mm) wire.

**1405.8 Terra cotta.** Anchored terra cotta or ceramic units not less than 1.625 inches (41 mm) thick shall be anchored directly to masonry, concrete or stud construction. Tied terra cotta or ceramic veneer units shall be not less than 1.625 inches (41 mm) thick with projecting dovetail webs on the back surface spaced approximately 8 inches (203 mm) o.c. The facing shall be tied to the backing wall with corrosion-resistant metal anchors of not less than No. 8 gage wire installed at the top of each piece in horizontal bed joints not less than 12 inches (305 mm) nor more than 18 inches (457 mm) o.c.; these anchors shall be secured to 0.25-inch (6.4 mm) corrosion-resistant pencil rods that pass through the vertical aligned loop anchors in the backing wall. The veneer ties shall have sufficient strength to support the full weight of the veneer in tension. The facing shall be set with not less than a 2-inch (51 mm) space from the backing wall and the space shall be filled solidly with portland cement grout and pea gravel. Immediately prior to setting, the backing wall and the facing shall be drenched with clean water and shall be distinctly damp when the grout is poured.

**1405.9 Adhered masonry veneer.** Adhered masonry veneer shall comply with the applicable requirements in Section 1405.9.1 and Sections 6.1 and 6.3 of ACI 530/ASCE 5/TMS 402.

**1405.9.1 Interior adhered masonry veneers.** Interior adhered masonry veneers shall have a maximum weight of 20 psf (0.958 kg/m<sup>2</sup>) and shall be installed in accordance with Section 1405.9. Where the interior adhered masonry

veneer is supported by wood construction, the supporting members shall be designed to limit deflection to  $1/600$  of the span of the supporting members.

**1405.10 Metal veneers.** Veneers of metal shall be fabricated from approved corrosion-resistant materials or shall be protected front and back with porcelain enamel, or otherwise be treated to render the metal resistant to corrosion. Such veneers shall not be less than 0.0149-inch (0.378 mm) nominal thickness sheet steel mounted on wood or metal furring strips or approved sheathing on the wood construction.

**1405.10.1 Attachment.** Exterior metal veneer shall be securely attached to the supporting masonry or framing members with corrosion-resistant fastenings, metal ties or by other approved devices or methods. The spacing of the fastenings or ties shall not exceed 24 inches (610 mm) either vertically or horizontally, but where units exceed 4 square feet (0.4 m<sup>2</sup>) in area there shall be not less than four attachments per unit. The metal attachments shall have a cross-sectional area not less than provided by W 1.7 wire. Such attachments and their supports shall be capable of resisting a horizontal force in accordance with the wind loads specified in Section 1609, but in no case less than 20 psf (0.958 kg/m<sup>2</sup>).

**1405.10.2 Weather protection.** Metal supports for exterior metal veneer shall be protected by painting, galvanizing or by other equivalent coating or treatment. Wood studs, furring strips or other wood supports for exterior metal veneer shall be approved pressure-treated wood or protected as required in Section 1403.2. Joints and edges exposed to the weather shall be caulked with approved durable waterproofing material or by other approved means to prevent penetration of moisture.

**1405.10.3 Backup.** Masonry backup shall not be required for metal veneer except as is necessary to meet the fire-resistance requirements of this code.



**TABLE 1504.8**  
**MAXIMUM ALLOWABLE MEAN ROOF HEIGHT PERMITTED FOR**  
**BUILDINGS WITH GRAVEL OR STONE ON THE ROOF IN AREAS**  
**OUTSIDE A HURRICANE-PRONE REGION**

BASIC WIND SPEED FROM FIGURE 1609 (mph) <sup>b</sup>	MAXIMUM MEAN ROOF HEIGHT (ft) <sup>a,c</sup>		
	Exposure category		
	B	C	D
85	170	60	30
90	110	35	15
95	75	20	NP
100	55	15	NP
105	40	NP	NP
110	30	NP	NP
115	20	NP	NP
120	15	NP	NP
Greater than 120	NP	NP	NP

- For SI: 1 foot = 304.8 mm; 1 mile per hour = 0.447 m/s.  
 a. Mean roof height in accordance with Section 1609.2.  
 b. For intermediate values of basic wind speed, the height associated with the next higher value of wind speed shall be used, or direct interpolation is permitted.  
 c. NP = gravel and stone not permitted for any roof height.

**SECTION 1505**  
**FIRE CLASSIFICATION**

**1505.1 General.** Roof assemblies shall be divided into the classes defined below. Class A, B and C roof assemblies and roof coverings required to be listed by this section shall be tested in accordance with ASTM E 108 or UL 790. The minimum roof coverings installed on buildings shall comply with Table 1505.1 based on the type of construction of the building.

**Exception:** Skylights and sloped glazing shall comply with Chapter 24 or Section 2610 of this Code.  
 No wood shake or wood shingle roof covering is permitted anywhere in the City of Los Angeles.

**TABLE 1505.1<sup>a</sup>**  
**MINIMUM ROOF COVERING CLASSIFICATION**  
**FOR TYPES OF CONSTRUCTION**

IA	IB	IIA	IIB	IIIA	IIIB	IV	VA	VB
B	B	B	C	B	C	B	B	C

- For SI: 1 foot = 304.8 mm, 1 square foot = 0.0929 m<sup>2</sup>.  
 a. Unless otherwise required in accordance with Chapter 7A.

**1505.1.1 Real coverings within very high fire hazard severity zones.** The entire roof covering of every existing structure where more than 50 percent of the total roof area is replaced within any one-year period, the entire roof covering of every new structure, and any roof covering applied in the alteration, repair or replacement of the roof of every existing structure, shall be a fire-retardant roof covering that is at least Class A.

**Exception:** The requirements shall not apply in any jurisdiction that adopts the model ordinance approved by the State Fire Marshal pursuant to Section 51189 of the Government Code or an ordinance that substantially

conforms to the model ordinance and transmits a copy to the State Fire Marshal.

**1505.1.2 Real coverings within state responsibility areas.** The entire roof covering of every existing structure where more than 50 percent of the total roof area is replaced within any one-year period, the entire roof covering of every new structure and any roof covering applied in the alteration, repair or replacement of the roof of every existing structure shall be a fire-retardant roof covering that is at least Class B.

**Exception:** Areas designated as moderate fire hazard severity zones.

**1505.1.3 Roof coverings within all other areas.** The entire roof covering of every existing structure where more than 50 percent of the total roof area is replaced within any one-year period, the entire roof covering of every new structure, and any roof covering applied in the alteration, repair or replacement of the roof of every existing structure, shall be a fire-retardant roof covering that is at least Class C.

**1505.1.4 Roofing requirements in a Wildland-Urban Interface Fire Area.** Roofing requirements for structures located in a Wildland-Urban Interface Fire Area shall also comply with Section 704A.1.

**1505.2 Class A roof assemblies.** Class A roof assemblies are those that are effective against severe fire test exposure. Class A roof assemblies and roof coverings shall be listed and identified as Class A by an approved testing agency. Class A roof assemblies shall be permitted for use in buildings or structures of all types of construction.

**Exception:** Class A roof assemblies include those with coverings of brick, masonry, slate, clay or concrete roof tile, exposed concrete roof deck, ferrous or copper shingles or sheets.

**1505.3 Class B roof assemblies.** Class B roof assemblies are those that are effective against moderate fire-test exposure. Class B roof assemblies and roof coverings shall be listed and identified as Class B by an approved testing agency.

**Exception:** Class B roof assemblies include those with coverings of metal sheets and shingles.

**1505.4 Class C roof assemblies.** Class C roof assemblies are those that are effective against light fire-test exposure. Class C roof assemblies and roof coverings shall be listed and identified as Class C by an approved testing agency.

**1505.5 Nonclassified roofing.** Nonclassified roofing is approved material that is not listed as a Class A, B or C roof covering.

**1505.6 Fire-retardant-treated wood shingles and shakes.** Fire-retardant-treated wood shakes and shingles are wood shakes and shingles complying with UBC Standard 15-3 or 15-4 which are impregnated by the full-cell vacuum-pressure process with fire-retardant chemicals, and which have been qualified by UBC Standard 15-2 for use on Class A, B or C roofs.

Fire-retardant-treated wood shakes and shingles shall comply with ICC-ES EG107 and with the weathering requirements contained in Health and Safety Code Section 13132.7(j). Each

bundle shall bear labels from an ICC accredited quality control agency identifying their roof-covering classification and indicating their compliance with ICC-ES EG107 and with the weathering requirements contained in Health and Safety Code Section 13132.7(j).

*Health and Safety Code Section 13132.7(j). No wood roof covering materials shall be sold or applied in this state unless both of the following conditions are met:*

- (1) *The materials have been approved and listed by the State Fire Marshal as complying with the requirements of this section.*
- (2) *The materials have passed at least five years of the 10-year natural weathering test. The 10-year natural weathering test required by this subdivision shall be conducted in accordance with standard 15-2 of the 1994 edition of the Uniform Building Code at a testing facility recognized by the State Fire Marshal.*

**1505.7 Special purpose roofs.** Special purpose wood shingle or wood shake roofing shall conform with the grading and application requirements of Section 1507.8 or 1507.9. In addition, an underlayment of 0.625-inch (15.9 mm) Type X water-resistant gypsum backing board or gypsum sheathing shall be placed under minimum nominal 0.5-inch-thick (12.7 mm) wood structural panel solid sheathing or 1-inch (25 mm) nominal spaced sheathing.

## SECTION 1506 MATERIALS

**1506.1 Scope.** The requirements set forth in this section shall apply to the application of roof-covering materials specified herein. Roof coverings shall be applied in accordance with this chapter and the manufacturer's installation instructions. Installation of roof coverings shall comply with the applicable provisions of Section 1507.

**1506.2 Compatibility of materials.** Roofs and roof coverings shall be of materials that are compatible with each other and with the building or structure to which the materials are applied.

**1506.3 Material specifications and physical characteristics.** Roof-covering materials shall conform to the applicable standards listed in this chapter. In the absence of applicable standards or where materials are of questionable suitability, testing by an approved agency shall be required by the building official to determine the character, quality and limitations of application of the materials.

**1506.4 Product identification.** Roof-covering materials shall be delivered in packages bearing the manufacturer's identifying marks and approved testing agency labels required in accordance with Section 1505. Bulk shipments of materials shall be accompanied with the same information issued in the form of a certificate or on a bill of lading by the manufacturer.

## SECTION 1507 REQUIREMENTS FOR ROOF COVERINGS

**1507.1 Scope.** Roof coverings shall be applied in accordance with the applicable provisions of this section and the manufacturer's installation instructions.

**1507.2 Asphalt shingles.** The installation of asphalt shingles shall comply with the provisions of this section.

**1507.2.1 Deck requirements.** Asphalt shingles shall be fastened to solidly sheathed decks.

**1507.2.2 Slope.** Asphalt shingles shall only be used on roof slopes of two units vertical in 12 units horizontal (17-percent slope) or greater. For roof slopes from two units vertical in 12 units horizontal (17-percent slope) up to four units vertical in 12 units horizontal (33-percent slope), double underlayment application is required in accordance with Section 1507.2.8.

**1507.2.3 Underlayment.** Unless otherwise noted, required underlayment shall conform to ASTM D 226, Type I, ASTM D 4869, Type I, or ASTM D 6757.

**1507.2.4 Self-adhering polymer modified bitumen sheet.** Self-adhering polymer modified bitumen sheet shall comply with ASTM D 1970.

**1507.2.5 Asphalt shingles.** Asphalt shingles shall have self-seal strips or be interlocking and comply with ASTM D 225 or ASTM D 3462. Asphalt shingle packaging shall bear labeling indicating compliance with ASTM D 3161 or a listing by an approved testing agency in accordance with the requirements of Section 1609.5.2.

**1507.2.6 Fasteners.** Fasteners for asphalt shingles shall be galvanized, stainless steel, aluminum or copper roofing nails, minimum 12 gage [0.105 inch (2.67 mm)] shank with a minimum 0.375 inch-diameter (9.5 mm) head, of a length to penetrate through the roofing materials and a minimum of 0.75 inch (19.1 mm) into the roof sheathing. Where the roof sheathing is less than 0.75 inch (19.1 mm) thick, the nails shall penetrate through the sheathing. Fasteners shall comply with ASTM F 1667.

**1507.2.7 Attachment.** Asphalt shingles shall have the minimum number of fasteners required by the manufacturer and Section 1504.1. Asphalt shingles shall be secured to the roof with not less than four fasteners per strip shingle or two fasteners per individual shingle. Where the roof slope exceeds 20 units vertical in 12 units horizontal (166-percent slope), asphalt shingles shall be installed in accordance with the manufacturer's printed installation instructions for steep-slope roof applications.

**1507.2.8 Underlayment application.** For roof slopes from two units vertical in 12 units horizontal (17-percent slope) and up to four units vertical in 12 units horizontal (33-percent slope), underlayment shall be two layers applied in the following manner. Apply a minimum 19-inch-wide (483 mm) strip of underlayment felt parallel with and starting at the eaves, fastened sufficiently to hold in place. Starting at the eave, apply 36-inch-wide (914 mm) sheets of underlayment overlapping successive sheets 19 inches (483 mm), by fastened sufficiently to hold in place. Distortions in

**TABLE 1507.3.7  
CLAY AND CONCRETE TILE ATTACHMENT<sup>a, b, c</sup>**

GENERAL—CLAY OR CONCRETE ROOF TILE				
Maximum basic wind speed (mph)	Mean roof height (feet)	Roof slope up to < 3:12	Roof slope 3:12 and over	
85	0-60	Two fasteners per tile.	Two fasteners per tile.	
100	0-40			
100	> 40-60	The head of all tiles shall be nailed. The nose of all eave tiles shall be fastened with approved clips. All rake tiles shall be nailed with two nails. The nose of all ridge, hip and rake tiles shall be set in a bead of roofer's mastic.		
110	0-60	The fastening system shall resist the wind forces in Section 1609.5.2.		
120	0-60	The fastening system shall resist the wind forces in Section 1609.5.2.		
130	0-60	The fastening system shall resist the wind forces in Section 1609.5.2.		
All	> 60	The fastening system shall resist the wind forces in Section 1609.5.2.		
INTERLOCKING CLAY OR CONCRETE ROOF TILE WITH PROJECTING ANCHOR LUGS <sup>d, e</sup> (Installations on solid sheathing with battens)				
Maximum basic wind speed (mph)	Mean roof height (feet)	Roof slope up to < 5:12	Roof slope 5:12 < 12:12	Roof slope 12:12 and over
85	0-60	Minimum slope is 4:12. One fastener per tile.	One fastener per tile. Tiles with installed weight less than 9 lbs./sq. ft. require a minimum of one fastener per tile.	One fastener required for every tile. Tiles with installed weight less than 9 lbs./sq. ft. require a minimum of one fastener per tile.
100	0-40			
100	> 40-60	The head of all tiles shall be nailed. The nose of all eave tiles shall be fastened with approved clips. All rake tiles shall be nailed with two nails. The nose of all ridge, hip and rake tiles shall be set in a bead of roofers's mastic.		
110	0-60	The fastening system shall resist the wind forces in Section 1609.5.2.		
120	0-60	The fastening system shall resist the wind forces in Section 1609.5.2.		
130	0-60	The fastening system shall resist the wind forces in Section 1609.5.2.		
All	> 60	The fastening system shall resist the wind forces in Section 1609.5.2.		
INTERLOCKING CLAY OR CONCRETE ROOF TILE WITH PROJECTING ANCHOR LUGS (Installations on solid sheathing without battens)				
Maximum basic wind speed (mph)	Mean roof height (feet)	Minimum roof slopes 4 units vertical in 12 units horizontal Maximum slope 7 units vertical in 12 units horizontal		
85	0-60	One fastener per tile.		
100	0-40	One fastener per tile.		
100	> 40-60	The head of all tiles shall be nailed. The nose of all eave tiles shall be fastened with approved clips. All rake tiles shall be nailed with two nails. The nose of all ridge, hip and rake tiles shall be set in a bead of roofer's mastic.		
110	0-60	The fastening system shall resist the wind forces in Section 1609.5.2.		
120	0-60	The fastening system shall resist the wind forces in Section 1609.5.2.		
130	0-60	The fastening system shall resist the wind forces in Section 1609.5.2.		
All	> 60	The fastening system shall resist the wind forces in Section 1609.5.2.		

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For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s, 1 pound per square foot = 4.882 kg/m<sup>2</sup>.

- a. Minimum fastener size. Hot dipped galvanized ring shank or other corrosion-resistant nails not less than No. 11 gage with 5/16-inch head. Fasteners shall be long enough to penetrate into the sheathing 0.75 inch or through the thickness of the sheathing, whichever is less. Attaching wire for clay and concrete tile shall not be smaller than 0.083 inch and shall be copper, brass or stainless steel.
- b. Snow areas. A minimum of two fasteners per tile are required or battens and one fastener.
- c. Roof slopes greater than 24:12. The nose of all tiles shall be securely fastened.
- d. Horizontal battens. Battens shall be not less than 1 inch by 2 inch nominal. Provisions shall be made for drainage by a minimum of 1/8-inch riser at each nail or by 4-foot-long battens with at least a 0.5-inch separation between battens. Horizontal battens are required for slopes over 7:12.
- e. Perimeter fastening areas include three tile courses but not less than 36 inches from either side of hips or ridges and edges of eaves and gable rakes.

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**TABLE 1507.4.3(1)  
METAL ROOF COVERINGS**

ROOF COVERING TYPE	STANDARD APPLICATION RATE/THICKNESS
Aluminum	ASTM B 209, 0.024 inch minimum thickness for roll-formed panels and 0.019 inch minimum thickness for press-formed shingles.
Aluminum-zinc alloy coated steel	ASTM A 792 AZ 50
Cold-rolled copper	ASTM B 370 minimum 16 oz./sq. ft. and 12 oz./sq. ft. high yield copper for metal-sheet roof covering systems; 12 oz./sq. ft. for preformed metal shingle systems.
Copper	16 oz./sq. ft. for metal-sheet roof-covering systems; 12 oz./sq. ft. for preformed metal shingle systems.
Galvanized steel	ASTM A 653 G-90 zinc-coated <sup>a</sup> .
Hard lead	2 lbs./sq. ft.
Lead-coated copper	ASTM B 101
Prepainted steel	ASTM A 755
Soft lead	3 lbs./sq. ft.
Stainless steel	ASTM A 240, 300 Series Alloys
Steel	ASTM A 924
Terne and terne-coated stainless	Terne coating of 40 lbs. per double base box, field painted where applicable in accordance with manufacturer's installation instructions.
Zinc	0.027 inch minimum thickness; 99.995% electrolytic high grade zinc with alloy additives of copper (0.08% - 0.20%), titanium (0.07% - 0.12%) and aluminum (0.015%).

For SI: 1 ounce per square foot = 0.0026 kg/m<sup>2</sup>,  
1 pound per square foot = 4.882 kg/m<sup>2</sup>,  
1 inch = 25.4 mm, 1 pound = 0.454 kg.

a. For Group U buildings, the minimum coating thickness for ASTM A 653 galvanized steel roofing shall be G-60.

**TABLE 1507.4.3(2)  
MINIMUM CORROSION RESISTANCE**

55% Aluminum-Zinc Alloy Coated Steel	ASTM A 792 AZ 50
5% Aluminum Alloy-coated steel	ASTM A875 GF60
Aluminum-coated steel	ASTM A463 T2 65
Galvanized Steel	ASTM A 653 G-90
Prepainted Steel	ASTM A 755 <sup>a</sup>

a. Paint systems in accordance with ASTM A 755 shall be applied over steel products with corrosion resistant coatings complying with ASTM A 792, ASTM A 875, ASTM A 463, or ASTM A 653.

**1507.4.4 Attachment.** Metal roof panels shall be secured to the supports in accordance with the approved manufac-

turer's fasteners. In the absence of manufacturer recommendations, the following fasteners shall be used:

1. Galvanized fasteners shall be used for steel roofs.
2. 300 series stainless-steel fasteners shall be used for copper roofs.
3. Stainless-steel fasteners are acceptable for all types of metal roofs.

**1507.5 Metal roof shingles.** The installation of metal roof shingles shall comply with the provisions of this section.

**1507.5.1 Deck requirements.** Metal roof shingles shall be applied to a solid or closely fitted deck, except where the roof covering is specifically designed to be applied to spaced sheathing.

**1507.5.2 Deck slope.** Metal roof shingles shall not be installed on roof slopes below three units vertical in 12 units horizontal (25-percent slope).

**1507.5.3 Underlayment.** Underlayment shall comply with ASTM D 226, Type I or ASTM D 4869. In areas where there has been a history of ice forming along the eaves causing a backup of water, an ice barrier that consists of at least two layers of underlayment cemented together or of a self-adhering polymer-modified bitumen sheet shall be used in lieu of normal underlayment and extend from the eave's edge to a point at least 24 inches (610 mm) inside the exterior wall line of the building.

**Exception:** Detached accessory structures that contain no conditioned floor area.

**1507.5.4 Material standards.** Metal roof shingle roof coverings shall comply with Table 1507.4.3(1). The materials used for metal-roof shingle roof coverings shall be naturally corrosion resistant or provided with corrosion resistance in accordance with the standards and minimum thicknesses specified in the standards listed in Table 1507.4.3(2).

**1507.5.5 Attachment.** Metal roof shingles shall be secured to the roof in accordance with the approved manufacturer's installation instructions.

**1507.5.6 Flashing.** Roof valley flashing shall be of corrosion-resistant metal of the same material as the roof covering or shall comply with the standards in Table 1507.4.3(1). The valley flashing shall extend at least 8 inches (203 mm) from the centerline each way and shall have a splash diverter rib not less than 0.75 inch (19.1 mm) high at the flow line formed as part of the flashing. Sections of flashing shall have an end lap of not less than 4 inches (102 mm). In areas where the average daily temperature in January is 25°F (-4°C) or less or where there is a possibility of ice forming along the eaves causing a backup of water, the metal valley flashing shall have a 36-inch-wide (914 mm) underlayment directly under it consisting of either one layer of underlayment running the full length of the valley or a self-adhering polymer-modified bitumen sheet complying with ASTM D 1970, in addition to underlayment required for metal roof shingles. The metal valley flashing underlayment shall be solidly cemented to the roofing underlayment for roof slopes under seven units vertical in

**1507.13 Thermoplastic single-ply roofing.** The installation of thermoplastic single-ply roofing shall comply with the provisions of this section.

**1507.13.1 Slope.** Thermoplastic single-ply membrane roofs shall have a design slope of a minimum of one-fourth unit vertical in 12 units horizontal (2-percent slope).

**1507.13.2 Material standards.** Thermoplastic single-ply roof coverings shall comply with ASTM D 4434, ASTM D 6754, ASTM D 6878 or CGSB CAN/CGSB 37-54.

**1507.14 Sprayed polyurethane foam roofing.** The installation of sprayed polyurethane foam roofing shall comply with the provisions of this section.

**1507.14.1 Slope.** Sprayed polyurethane foam roofs shall have a design slope of a minimum of one-fourth unit vertical in 12 units horizontal (2-percent slope) for drainage.

**1507.14.2 Material standards.** Spray-applied polyurethane foam insulation shall comply with ASTM C 1029.

**1507.14.3 Application.** Foamed-in-place roof insulation shall be installed in accordance with the manufacturer's instructions. A liquid-applied protective coating that complies with Section 1507.15 shall be applied no less than 2 hours nor more than 72 hours following the application of the foam.

**1507.14.4 Foam plastics.** Foam plastic materials and installation shall comply with Chapter 26.

**1507.15 Liquid-applied coatings.** The installation of liquid-applied coatings shall comply with the provisions of this section.

**1507.15.1 Slope.** Liquid-applied roofs shall have a design slope of a minimum of one-fourth unit vertical in 12 units horizontal (2-percent slope).

**1507.15.2 Material standards.** Liquid-applied roof coatings shall comply with ASTM C 836, ASTM C 957, ASTM D 1227 or ASTM D 3468, ASTM D 6083 or ASTM D 6694.

**SECTION 1508  
ROOF INSULATION**

**1508.1 General.** The use of above-deck thermal insulation shall be permitted provided such insulation is covered with an approved roof covering and passes the tests of FM 4450 or UL 1256 when tested as an assembly.

**Exceptions:**

1. Foam plastic roof insulation shall conform to the material and installation requirements of Chapter 26.
2. Where a concrete roof deck is used and the above-deck thermal insulation is covered with an approved roof covering.

**1508.1.1 Cellulosic fiberboard.** Cellulosic fiberboard roof insulation shall conform to the material and installation requirements of Chapter 23.

**1508.2 Material standards.** Above-deck thermal insulation board shall comply with the standards in Table 1508.2.

**TABLE 1508.2  
MATERIAL STANDARDS FOR ROOF INSULATION**

Cellular glass board	ASTM C 552
Composite boards	ASTM C 1289, Type III, IV, V or VI
Expanded polystyrene	ASTM C 578
Extruded polystyrene board	ASTM C 578
Perlite board	ASTM C 728
Polyisocyanurate board	ASTM C 1289, Type I or Type II
Wood fiberboard	ASTM C 208

**SECTION 1509  
ROOFTOP STRUCTURES**

**1509.1 General.** The provisions of this section shall govern the construction of rooftop structures.

**1509.2 Penthouses.** A penthouse or other projection above the roof in structures of other than Type I construction shall not exceed 28 feet (8534 mm) above the roof where used as an enclosure for tanks or for elevators that run to the roof and in all other cases shall not extend more than 18 feet (5486 mm) above the roof. The aggregate area of penthouses and other rooftop structures shall not exceed one-third the area of the supporting roof. A penthouse, bulkhead or any other similar projection above the roof shall not be used for purposes other than shelter of mechanical equipment or shelter of vertical shaft openings in the roof. Provisions such as louvers, louver blades or flashing shall be made to protect the mechanical equipment and the building interior from the elements. Penthouses or bulkheads used for purposes other than permitted by this section shall conform to the requirements of this code for an additional story. The restrictions of this section shall not prohibit the placing of wood flagpoles or similar structures on the roof of any building.

**1509.2.1 Type of construction.** Penthouses shall be constructed with walls, floors and roof as required for the building.

**Exceptions:**

1. On buildings of Type I and II construction, the exterior walls and roofs of penthouses with a fire separation distance of more than 5 feet (1524 mm) and less than 20 feet (6096 mm) shall be of at least 1-hour fire-resistance-rated noncombustible construction. Walls and roofs with a fire separation distance of 20 feet (6096 mm) or greater shall be of noncombustible construction. Interior framing and walls shall be of noncombustible construction.
2. On buildings of Type III, IV and V construction, the exterior walls of penthouses with a fire separation distance of more than 5 feet (1524 mm) and less than 20 feet (6096 mm) shall be at least 1-hour fire-resistance-rated construction. Walls with a fire separation distance of 20 feet (6096 mm) or greater

from a common property line shall be of Type IV or noncombustible construction. Roofs shall be constructed of materials and fire-resistance rated as required in Table 601. Interior framing and walls shall be Type IV or noncombustible construction.

3. Unprotected noncombustible enclosures housing only mechanical equipment and located with a minimum fire separation distance of 20 feet (6096 mm) shall be permitted.
4. On one-story buildings, combustible unroofed mechanical equipment screens, fences or similar enclosures are permitted where located with a fire separation distance of at least 20 feet (6096 mm) from adjacent property lines and where not exceeding 4 feet (1219 mm) in height above the roof surface.
5. Dormers shall be of the same type of construction as the roof on which they are placed, or of the exterior walls of the building.

**1509.3 Tanks.** Tanks having a capacity of more than 500 gallons (2 m<sup>3</sup>) placed in or on a building shall be supported on masonry, reinforced concrete, steel or Type IV construction provided that, where such supports are located in the building above the lowest story, the support shall be fire-resistance rated as required for Type IA construction.

**1509.3.1 Valve.** Such tanks shall have in the bottom or on the side near the bottom, a pipe or outlet, fitted with a suitable quick opening valve for discharging the contents in an emergency through an adequate drain.

**1509.3.2 Location.** Such tanks shall not be placed over or near a line of stairs or an elevator shaft, unless there is a solid roof or floor underneath the tank.

**1509.3.3 Tank cover.** Unenclosed roof tanks shall have covers sloping toward the outer edges.

**1509.4 Cooling towers.** Cooling towers in excess of 250 square feet (23.2 m<sup>2</sup>) in base area or in excess of 15 feet (4572 mm) high where located on building roofs more than 50 feet (15 240 mm) high shall be of noncombustible construction. Cooling towers shall not exceed one-third of the supporting roof area.

**Exception:** Drip boards and the enclosing construction of wood not less than 1 inch (25 mm) nominal thickness, provided the wood is covered on the exterior of the tower with noncombustible material.

**1509.5 Towers, spires, domes and cupolas.** Any tower, spire, dome or cupola shall be of a type of construction not less in fire-resistance rating than required for the building to which it is attached, except that any such tower, spire, dome or cupola that exceeds 85 feet (25 908 mm) in height above grade plane, exceeds 200 square feet (18.6 m<sup>2</sup>) in horizontal area or is used for any purpose other than a belfry or an architectural embellishment shall be constructed of and supported on Type I or II construction.

**1509.5.1 Noncombustible construction required.** Any tower, spire, dome or cupola that exceeds 60 feet (18 288) in

height above the highest point at which it comes in contact with the roof, or that exceeds 200 square feet (18.6 m<sup>2</sup>) in area at any horizontal section, or which is intended to be used for any purpose other than a belfry or architectural embellishment, shall be entirely constructed of and supported by noncombustible materials. Such structures shall be separated from the building below by construction having a fire-resistance rating of not less than 1.5 hours with openings protected with a minimum 1.5-hour fire-protection rating. Structures, except aerial supports 12 feet (3658 mm) high or less, flagpoles, water tanks and cooling towers, placed above the roof of any building more than 50 feet (15 240 mm) in height, shall be of noncombustible material and shall be supported by construction of noncombustible material.

**1509.5.2 Towers and spires.** Towers and spires where enclosed shall have exterior walls as required for the building to which they are attached. The roof covering of spires shall be of a class of roof covering as required for the main roof of the rest of the structure.

**SECTION 1510  
REROOFING**

**1510.1 General.** Materials and methods of application used for recovering or replacing an existing roof covering shall comply with the requirements of Chapter 15.

**Exception:** Reroofing shall not be required to meet the minimum design slope requirement of one-quarter unit vertical in 12 units horizontal (2-percent slope) in Section 1507 for roofs that provide positive roof drainage.

**1510.2 Structural and construction loads.** Structural roof components shall be capable of supporting the roof-covering system and the material and equipment loads that will be encountered during installation of the system.

**1510.3 Recovering versus replacement.** New roof coverings shall not be installed without first removing all existing layers of roof coverings where any of the following conditions occur:

1. Where the existing roof or roof covering is water soaked or has deteriorated to the point that the existing roof or roof covering is not adequate as a base for additional roofing.
2. Where the existing roof covering is wood shake, slate, clay, cement or asbestos-cement tile.
3. Where the existing roof has two or more applications of any type of roof covering.

**Exceptions:**

1. Complete and separate roofing systems, such as standing-seam metal roof systems, that are designed to transmit the roof loads directly to the building's structural system and that do not rely on existing roofs and roof coverings for support shall not require the removal of existing roof coverings.
2. The application of a new protective coating over an existing spray polyurethane foam roofing system shall be permitted without tear-off of existing roof coverings.



mm by 51 mm) wood stripping nailed to the roof sheathing over the underlay.

5. *Clay or concrete tile on roofs with slopes exceeding 24 units vertical in 12 units horizontal (200-percent slope) shall be attached as required for veneer in Chapter 14. The nose of all tiles shall be securely fastened.*
6. *Clay or concrete tile shall have a minimum of two fasteners per tile. Tiles that are 8 inches (203 mm) in width or less are permitted to be fastened at the center of the head with one fastener per tile.*
7. *Interlocking clay or concrete tile shall have a minimum of one nail near center of head or two wire ties per tile.*

**1511.5 Slate shingles.** *Slate shingles on roofs with slopes exceeding 24 units vertical in 12 units horizontal (200-percent slope) shall be attached as required for veneer per Chapter 14.*

**1511.6 Alternative design.** *An alternative design of the fastening system used to resist seismic loads is permitted, provided that an engineering analysis or test report based on cyclic testing is provided to the enforcement agency.*

*The fastening system shall be designed to resist seismic forces per ASCE 7, Section 13.3. Testing of alternative fastening system shall comply with ASCE 7, Section 13.2.5.*