

CHAPTER 30

ELEVATORS AND CONVEYING SYSTEMS

SECTION 3001 GENERAL

3001.1 [Comm 62.3001 (1)] Scope. This chapter governs the design, construction, installation, alteration and repair of elevators, dumbwaiters, escalators, moving walks and their components.

3001.2 [Comm 62.3001 (2)] Referenced standards. Except as otherwise provided for in this code, the design, construction, installation, alteration, repair and maintenance of elevators, dumbwaiters, escalators, moving walks and their components shall comply with ch. Comm 18.

3001.3 Accessibility. Passenger elevators required to be accessible by Chapter 11 shall conform to ICC A117.1.

3001.4 [Comm 62.3001 (3)] Change in use. A change in use of an elevator from freight to passenger, passenger to freight, or from one freight class to another freight class shall comply with ch. Comm 18.

SECTION 3002 HOISTWAY ENCLOSURES

3002.1 Hoistway enclosure protection. Elevator, dumbwaiter and other hoistway enclosures shall have a fire-resistance rating not less than that specified in Chapter 6 and shall be constructed in accordance with Chapter 7.

3002.1.1 Opening protectives. Openings in hoistway enclosures shall be protected as required in Chapter 7.

3002.1.2 Hardware. Hardware on opening protectives shall be of an approved type installed as tested, except that approved interlocks, mechanical locks and electric contacts, door and gate electric contacts, and door-operating mechanisms shall be exempt from the fire test requirements.

3002.2 Number of elevator cars in a hoistway. Where four or more elevator cars serve all or the same portion of a building, the elevators shall be located in at least two separate hoistways. Not more than four elevator cars shall be located in any single hoistway enclosure.

3002.3 Emergency signs. An approved pictorial sign of a standardized design shall be posted adjacent to each elevator call station on all floors instructing occupants to use the exit stairways and not to use the elevators in case of fire. The sign shall read: IN FIRE EMERGENCY, DO NOT USE ELEVATOR. USE EXIT STAIRS. The emergency sign shall not be required for elevators that are part of an accessible means of egress complying with Section 1003.2.13.3.

3002.4 [Comm 62.3002] Elevator car to accommodate ambulance stretcher. At least one elevator shall be provided for fire department emergency access to all floors in all buildings four stories in height or more, and, regardless of the number of stories, in all outpatient clinics specified in IBC Section 304.1 and in all nursing homes and hospitals as specified in IBC Sec-

tion 308.3. Such elevator car shall be of such a size and arrangement to accommodate a 24-inch by 76-inch (610 mm by 1930 mm) ambulance stretcher in the horizontal, open position and shall be identified by the international symbol for emergency medical services, which is the star of life. The symbol shall not be less than 3 inches (76 mm) high and shall be placed inside on both sides of the hoistway door frame.

3002.5 Emergency doors. Where an elevator is installed in a single blind hoistway or on the outside of a building, there shall be installed in the blind portion of the hoistway or blank face of the building, an emergency door in accordance with ASME A17.1.

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

3002.7 Common enclosure with stairway. Elevators shall not be in a common shaft enclosure with a stairway.

[F] SECTION 3003 EMERGENCY OPERATIONS

3003.1 Standby power. In buildings and structures where standby power is required or furnished to operate an elevator, the operation shall be in accordance with Section 3003.1.1 through 3003.1.4.

3003.1.1 Manual transfer. Standby power shall be manually transferable to all elevators in each bank.

3003.1.2 One elevator. Where only one elevator is installed, the elevator shall automatically transfer to standby power within 60 seconds after failure of normal power.

3003.1.3 Two or more elevators. Where two or more elevators are controlled by a common operating system, all elevators shall automatically transfer to standby power within 60 seconds after failure of normal power where the standby power source is of sufficient capacity to operate all elevators at the same time. Where the standby power source is not of sufficient capacity to operate all elevators at the same time, all elevators shall transfer to standby power in sequence, return to the designated landing and disconnect from the standby power source. After all elevators have been returned to the designated level, at least one elevator shall remain operable from the standby power source.

3003.1.4 Venting. Where standby power is connected to elevators, the machine room ventilation or air conditioning shall be connected to the standby power source.

3003.2 Fire-fighters' emergency operation. Elevators shall be provided with Phase I emergency recall operation and Phase II emergency in-car operation in accordance with ASME A17.1.

SECTION 3004 HOISTWAY VENTING

3004.1 Vents required. Hoistways of elevators and dumbwaiters penetrating more than three stories shall be provided with a means for venting smoke and hot gases to the outer air in case of fire.

Exceptions:

1. In occupancies of other than Groups R-1, R-2, I-1, I-2 and similar occupancies with overnight sleeping quarters, venting of hoistways is not required where the building is equipped throughout with an approved automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2.
2. Sidewalk elevator hoistways are not required to be vented.

3004.2 Location of vents. Vents shall be located below the floor or floors at the top of the hoistway, and shall open either directly to the outer air or through noncombustible ducts to the outer air. Noncombustible ducts shall be permitted to pass through the elevator machine room provided that portions of the ducts located outside the hoistway or machine room are enclosed by construction having not less than the fire protection rating required for the hoistway. Holes in the machine room floors for the passage of ropes, cables or other moving elevator equipment shall be limited so as not to provide greater than 2 inches (51 mm) of clearance on all sides.

3004.3 Area of vents. Except as provided for in Section 3004.3.1, the area of the vents shall not be less than $3\frac{1}{2}$ percent of the area of the hoistway nor less than 3 square feet (0.28 m²) for each elevator car, and not less than $3\frac{1}{2}$ percent nor less than 0.5 square foot (0.047 m²) for each dumbwaiter car in the hoistway, whichever is greater. Of the total required vent area, not less than one-third shall be of the permanently open type unless all vents activate upon detection of smoke from any of the elevator lobby smoke detectors.

Comm 62.3004 (1) Vent guards. A ventilation opening in a hoistway wall, where provided, shall have guards securely anchored to the supporting structure inside the hoistway. The guards shall consist of a wire-mesh screen of at least 0.0915-inch-diameter steel wire with openings that will reject a ball 1-inch (25.4 mm) in diameter, or expanded metal screen of equivalent strength and open area.

3004.3.1 Reduced vent area. Where mechanical ventilation conforming to the *International Mechanical Code* is provided, a reduction in the required vent area is allowed provided that all of the following conditions are met:

1. The occupancy is not in Group R-1, R-2, I-1 or I-2 or of a similar occupancy with overnight sleeping quarters.
2. The vents required by Section 3004.2 do not have outside exposure.
3. The hoistway does not extend to the top of the building.
4. The hoistway and machine room exhaust fan is automatically reactivated by thermostatic means.
5. Equivalent venting of the hoistway is accomplished.

3004.4 Closed vents. Closed portions of the required vent area shall consist of windows or duct openings glazed with annealed glass not more than 0.125 inch (3.2 mm) thick.

3004.5 [Comm 62.3004 (2)] Plumbing and mechanical systems.

- (a) **General.** Except as specified in par. (b), plumbing and mechanical systems shall not be located in an elevator shaft.
- (b) **Elevator pits.** Drains or sumps complying with ss. Comm 82.33 and 82.36 shall be provided in elevator pits. Connection of these drains and sumps to a sanitary system is prohibited.

SECTION 3005 CONVEYING SYSTEMS

3005.1 General. Escalators, moving walks, conveyors, personnel hoists and material hoists shall comply with the provisions of this section.

3005.2 Escalators and moving walks. Escalators and moving walks shall be constructed of approved noncombustible and fire-retardant materials. This requirement shall not apply to electrical equipment, wiring, wheels, handrails and the use of $\frac{1}{28}$ -inch (0.9 mm) wood veneers on balustrades backed up with noncombustible materials.

3005.2.1 Enclosure. Escalator floor openings shall be enclosed except where Exception 2 of Section 707.2 is satisfied.

3005.3 Conveyors. Conveyors and conveying systems shall comply with ASME B20.1.

3005.3.1 Enclosure. Conveyors and related equipment connecting successive floors or levels shall be enclosed with fire barrier walls and approved opening protectives complying with the requirements of Section 3002 and Chapter 7.

3005.3.2 Conveyor safeties. Power-operated conveyors, belts and other material-moving devices shall be equipped with automatic limit switches which will shut off the power in an emergency and automatically stop all operation of the device.

3005.4 Personnel and material hoists. Personnel and material hoists shall be designed utilizing an approved method that accounts for the conditions imposed during the intended operation of the hoist device. The design shall include, but is not limited to, anticipated loads, structural stability, impact, vibration, stresses and seismic restraint. The design shall account for the construction, installation, operation and inspection of the hoist tower, car, machinery and control equipment, guide members and hoisting mechanism. Additionally, the design of personnel hoists shall include provisions for field testing and maintenance which will demonstrate that the hoist device functions in accordance with the design. Field tests shall be conducted upon the completion of an installation or following a major alteration of a personnel hoist.

**SECTION 3006
MACHINE ROOMS**

3006.1 Access. An approved means of access shall be provided to elevator machine rooms and overhead machinery spaces.

Comm 62.3006 (1) Note: See ch. Comm 18 for additional machine room access requirements.

3006.2 Venting. Elevator machine rooms that contain solid-state equipment for elevator operation shall be provided with an independent ventilation or air-conditioning system to protect against the overheating of the electrical equipment. The system shall be capable of maintaining temperatures within the range established for the elevator equipment.

3006.3 Pressurization. The elevator machine room serving a pressurized elevator hoistway shall be pressurized upon activation of a heat or smoke detector located in the elevator machine room.

Comm 62.3006 (2) Exception: An elevator machine room which serves a pressurized elevator hoistway and which is not directly connected to the pressurized elevator shaft is not required to be pressurized.

3006.4 Machine rooms and machinery spaces. Elevator machine rooms and machinery spaces shall be enclosed with construction having a fire-resistance rating not less than the required rating of the hoistway enclosure served by the machinery. Openings shall be protected with assemblies having a fire-resistance rating not less than that required for the hoistway enclosure doors.

3006.5 Shunt trip. Where elevator hoistways or elevator machine rooms containing elevator control equipment are protected with automatic sprinklers, a means installed in accordance with NFPA 72, Section 3-8.15, Elevator Shutdown, shall be provided to disconnect automatically the main line power supply to the affected elevator prior to the application of water. This means shall not be self-resetting. The activation of sprinklers outside the hoistway or machine room shall not disconnect the main line power supply.

3006.6 [Comm 62.3006 (3)] Plumbing systems. Plumbing systems not used in connection with the operation of the elevator may not be located in elevator equipment rooms.

CHAPTER 31

SPECIAL CONSTRUCTION

SECTION 3101 GENERAL

3101.1 Scope. Provisions of this chapter shall govern special building construction including membrane structures, temporary structures, pedestrian walkways and tunnels, awnings and canopies, marquees, signs, and towers and antennas.

Comm 62.3100

- (1) **Assembly seating facilities.** Every bleacher, grandstand, or other assembly seating facility that is intended primarily to support persons for the purpose of spectator seating shall be inspected at least annually. Any loose connections and any defective or broken members shall be repaired before the facility is used. All repairs and maintenance shall conform with this code.
- (2) **Public mausoleums.** Public mausoleum structures shall be designed, constructed and maintained in accordance with this code. Mausoleums shall be classified as a Group S-1 storage occupancy and shall be constructed of reinforced concrete or other materials of similar durability.

Note: Section 157.12 (2) (d), Wisconsin Stats., reads as follows: "A mausoleum shall be constructed to last as long as possible, taking into consideration the technology and economics applicable to mausoleum construction at the time of construction."

SECTION 3102 MEMBRANE STRUCTURES

3102.1 General. The provisions of this section shall apply to air-supported, air-inflated, membrane-covered cable and membrane-covered frame structures, collectively known as membrane structures, erected for a period of 180 days or longer. Those erected for a shorter period of time shall comply with the *International Fire Code*. Membrane structures covering water storage facilities, water clarifiers, water treatment plants, sewage treatment plants, greenhouses and similar facilities not used for human occupancy, are required to meet only the requirements of Sections 3102.3.1 and 3102.7.

3102.2 Definitions. The following words and terms shall, for the purposes of this section and as used elsewhere in this code, have the meanings shown herein:

AIR-INFLATED STRUCTURE. A building where the shape of the structure is maintained by air pressurization of cells or tubes to form a barrel vault over the usable area. Occupants of such a structure do not occupy the pressurized area used to support the structure.

AIR-SUPPORTED STRUCTURE. A building wherein the shape of the structure is attained by air pressure and occupants of the structure are within the elevated pressure area. Air-supported structures are of two basic types:

Double skin. Similar to a single skin, but with an attached liner that is separated from the outer skin and provides an air space which serves for insulation, acoustic, aesthetic or similar purposes.

Single skin. Where there is only the single outer skin and the air pressure is directly against that skin.

CABLE-RESTRAINED, AIR-SUPPORTED STRUCTURE. A structure in which the uplift is resisted by cables or webbings which are anchored to either foundations or dead men. Reinforcing cable or webbing is attached by various methods to the membrane or is an integral part of the membrane. This is not a cable-supported structure.

MEMBRANE-COVERED CABLE STRUCTURE. A nonpressurized structure in which a mast and cable system provides support and tension to the membrane weather barrier and the membrane imparts structural stability to the structure.

MEMBRANE-COVERED FRAME STRUCTURE. A nonpressurized building wherein the structure is composed of a rigid framework to support a tensioned membrane which provides the weather barrier.

NONCOMBUSTIBLE MEMBRANE STRUCTURE. A membrane structure in which the membrane and all component parts of the structure are noncombustible.

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

Exception: Plastic less than 30 feet (9144 mm) above any floor used in greenhouses, where occupancy by the general public is not authorized, and for aquaculture pond covers, is not required to be flame-resistant.

3102.3.1 Membrane and interior liner material. Membranes and interior liners shall be either noncombustible as set forth in Section 703.4, or flame-resistant as determined in accordance with NFPA 701 and the manufacturer's test protocol.

Exception: Plastic less than 20 mil (500 mm) in thickness used in greenhouses, where occupancy by the general public is not authorized, and for aquaculture pond covers, is not required to be flame resistant.

3102.4 Allowable floor areas. The area of a membrane structure shall not exceed the limitations set forth in Table 503, except as provided in Section 506.

3102.5 Maximum height. Membrane structures shall not exceed one story nor shall such structures exceed the height limitations in feet set forth in Table 503.

Exception: Noncombustible membrane structures serving as roofs only.

3102.6 Mixed construction. Membrane structures shall be permitted to be utilized as specified in this section as a portion of buildings of other types of construction. Height and area limits shall be as specified for the type of construction and occupancy of the building.

3102.6.1 Noncombustible membrane. A noncombustible membrane shall be permitted for use as the roof or as a skylight of any building or atrium of a building of any type of construction provided it is at least 20 feet (6096 mm) above any floor, balcony or gallery.

3102.6.1.1 Flame-resistant membrane. A flame-resistant membrane shall be permitted to be used as the roof or as a skylight on buildings of Types IIB, III, IV and V construction provided it is at least 20 feet (6096 mm) above any floor, balcony or gallery.

3102.7 Engineering design. The structure shall be designed and constructed to sustain dead loads; loads due to tension or inflation; live loads including wind, snow or flood; and seismic loads and in accordance with Chapter 16.

3102.8 Inflation systems. Air-supported and air-inflated structures shall be provided with primary and auxiliary inflation systems to meet the minimum requirements of Sections 3102.8.1 through 3102.8.3.

3102.8.1 Equipment requirements. This inflation system shall consist of one or more blowers and shall include provisions for automatic control to maintain the required inflation pressures. The system shall be so designed as to prevent over-pressurization of the system.

3102.8.1.1 Auxiliary inflation system. In addition to the primary inflation system, in buildings exceeding 1,500 square feet (140 m²) in area, an auxiliary inflation system shall be provided with sufficient capacity to maintain the inflation of the structure in case of primary system failure. The auxiliary inflation system shall operate automatically when there is a loss of internal pressure and when the primary blower system becomes inoperative.

3102.8.1.2 [Comm 62.3102] Blower equipment. Blower equipment shall meet the following requirements:

1. Blowers shall be powered by continuous-rated motors at the maximum power required for any flow condition as required by the structural design.
2. Blowers shall be provided with inlet screens, belt guards and other protective devices as required to provide protection from injury.
3. Blowers shall be housed within a weather-protecting structure.
4. Blowers shall be equipped with back draft check dampers to minimize air loss when inoperative.

5. Blower inlet shall be located to provide protection from air contamination. The location of inlets shall be approved.

3102.8.2 Standby power. Wherever an auxiliary inflation system is required, an approved standby power-generating system shall be provided. The system shall be equipped with a suitable means for automatically starting the generator set upon failure of the normal electrical service and for automatic transfer and operation of all of the required electrical functions at full power within 60 seconds of such service failure. Standby power shall be capable of operating independently for a minimum of 4 hours.

3102.8.3 Support provisions. A system capable of supporting the membrane in the event of deflation shall be provided for in air-supported and air-inflated structures having an occupant load of more than 50 or where covering a swimming pool regardless of occupant load. The support system shall be capable of maintaining membrane structures used as a roof for Type I construction not less than 20 feet (6096 mm) above floor or seating areas. The support system shall be capable of maintaining other membranes at least 7 feet (2134 mm) above the floor, seating area or surface of the water.

SECTION 3103 TEMPORARY STRUCTURES

3103.1 General. The provisions of this section shall apply to structures erected for a period of less than 180 days. Tents and other membrane structures erected for a period of less than 180 days shall comply with the *International Fire Code*. Those erected for a longer period of time shall comply with applicable sections of this code.

Exception: Provisions of the *International Fire Code* shall apply to tents and membrane structures erected for a period of less than 180 days.

3103.1.1 Permit required. Temporary structures that cover an area in excess of 120 square feet (11.16 m²), including connecting areas or spaces with a common means of egress or entrance which are used or intended to be used for the gathering together of ten or more persons, shall not be erected, operated or maintained for any purpose without obtaining a permit from the building official.

Comm 62.3103 Local requirements. Under IBC Sections 3103.1.1 and 3103.2, the requirements for permits and construction documents for temporary structures are at the option of the local code official.

3103.2 Construction documents. A permit application and construction documents shall be submitted for each installation of a temporary structure. The construction documents shall include a site plan indicating the location of the temporary structure and information delineating the means of egress and the occupant load.

3103.3 Location. Temporary structures shall be located in accordance with the requirements of Table 602 based on the fire-resistance-rating of the exterior walls for the proposed type of construction.

3103.4 Means of egress. Temporary structures shall conform to the means of egress requirements of Chapter 10 and shall have a maximum exit access travel distance of 100 feet (30 480 mm).

SECTION 3104 PEDESTRIAN WALKWAYS AND TUNNELS

3104.1 General. This section shall apply to connections between buildings such as pedestrian walkways or tunnels, located at, above, or below grade level, that are used as a means of travel by persons. The pedestrian walkway shall not contribute to the building area or the number of stories or height of connected buildings.

3104.2 [Comm 62.3104 (1)] Separate structures. Buildings that are connected in accordance with IBC Section 3104 shall be considered to be separate structures.

3104.3 Construction. The pedestrian walkway shall be of noncombustible construction.

Exception: Combustible construction shall be permitted where connected buildings are of combustible construction.

3104.4 Deleted.

3104.5 Fire barriers between pedestrian walkways and buildings. Walkways shall be separated from the interior of the building by fire barrier walls with a fire-resistance rating of not less than 2 hours. This protection shall extend vertically from a point 10 feet (3048 mm) above the walkway roof surface or the connected building roof line, whichever is lower, down to a point 10 feet (3048 mm) below the walkway and horizontally 10 feet (3048 mm) from each side of the pedestrian walkway. Openings within the 10-foot (3048 mm) horizontal extension of the protected walls beyond the walkway shall be equipped with devices providing a $3/4$ -hour fire protection rating in accordance with Section 714.

Exception: The walls separating the pedestrian walkway from a connected building are not required to have a fire-resistance rating by this section where any of the following conditions exist:

1. The distance between the connected buildings is more than 10 feet (3048 mm), the pedestrian walkway and connected buildings are equipped throughout with an automatic sprinkler system in accordance with NFPA 13, and the wall is constructed of a tempered, wired or laminated glass wall and doors subject to the following:
 - 1.1. The glass shall be protected by an automatic sprinkler system in accordance with NFPA 13 and the sprinkler system shall completely wet the entire surface of interior sides of the glass wall when actuated.

- 1.2. The glass shall be in a gasketed frame and installed in such a manner that the framing system will deflect without breaking (loading) the glass before the sprinkler operates.

- 1.3. Obstructions shall not be installed between the sprinkler heads and the glass.

2. The distance between the connected buildings is more than 10 feet (3048 mm), and both side walls of the pedestrian walkway are at least 50 percent open with the open area uniformly distributed to prevent the accumulation of smoke and toxic gases.
3. Buildings are on the same lot, in accordance with Section 503.1.3.
4. Where exterior walls of connected buildings are required by Section 704 to have a fire-resistance rating greater than 2 hours, the walkway shall be equipped throughout with an automatic sprinkler system installed in accordance with NFPA 13.

The previous exceptions shall apply to pedestrian walkways having a maximum height above grade of three stories or 40 feet (12 192 mm), or five stories or 55 feet (16 764 mm) where sprinklered. The minimum height above grade shall be 8 feet (2438 mm).

3104.6 Public way. Pedestrian walkways over a public way shall also comply with Chapter 32.

3104.7 Egress. Access shall be provided at all times to a pedestrian walkway that serves as a required exit.

3104.8 Width. The unobstructed width of pedestrian walkways shall not be less than 36 inches (914 mm). The total width shall not exceed 30 feet (9144 mm).

3104.9 Exit access travel. The length of exit access travel shall not exceed 200 feet (60 960 mm).

Exceptions:

1. Exit access travel distance on a pedestrian walkway equipped throughout with an automatic sprinkler system in accordance with NFPA 13 shall not exceed 250 feet (76 200 mm).
2. Exit access travel distance on a pedestrian walkway constructed with both sides at least 50 percent open shall not exceed 300 feet (91 440 mm).
3. Exit access travel distance on a pedestrian walkway constructed with both sides at least 50 percent open, and equipped throughout with an automatic sprinkler system in accordance with NFPA 13, shall not exceed 400 feet (122 m).

3104.10 Tunneled walkway. Separation between the tunneled walkway and the building to which it is connected shall not be less than 2-hour fire-resistant construction and openings therein shall be protected in accordance with Table 714.2.

3104.11 Ventilation. Smoke and heat venting shall be provided for enclosed walkways and tunneled walkways. Such venting shall be in accordance with NFPA 204 or other accepted engineering practice.

SECTION 3105 AWNINGS AND CANOPIES

3105.1 General. Awnings or canopies shall comply with the requirements of this section and other applicable sections of this code.

3105.2 Design and construction. Awnings and canopies shall be designed and constructed to withstand wind or other lateral loads and live loads as required by Chapter 16 with due allowance for shape, open construction and similar features that relieve the pressures or loads. Structural members shall be protected to prevent deterioration. Awnings shall have frames of noncombustible material, fire-retardant-treated wood, wood of Type IV sizes, or 1-hour construction with combustible or noncombustible covers and shall be either fixed, retractable, folding or collapsible.

3105.3 Canopy materials. Canopies shall be constructed of a rigid framework with an approved covering, that is flame resistant in accordance with NFPA 701 or that has a flame spread rating not greater than 25 when tested in accordance with ASTM E 84.

SECTION 3106 MARQUEES

3106.1 General. Marquees shall comply with this section and other applicable sections of this code.

3106.2 Thickness. The maximum height or thickness of a marquee measured vertically from its lowest to its highest point shall not exceed 3 feet (914 mm) where the marquee projects more than two-thirds of the distance from the property line to the curb line, and shall not exceed 9 feet (2743 mm) where the marquee is less than two-thirds of the distance from the property line to the curb line.

3106.3 Roof construction. Where the roof or any part thereof is a skylight, the skylight shall comply with the requirements of Chapter 24. Every roof and skylight of a marquee shall be sloped to down spouts that shall conduct any drainage from the marquee in such a manner so as not to spill over the sidewalk.

3106.4 Location prohibited. Every marquee shall be so located as not to interfere with the operation of any exterior standpipe, and such that the marquee does not obstruct the clear passage of stairways or exit discharge from the building or the installation or maintenance of street lighting.

3106.5 Construction. A marquee shall be supported entirely from the building and constructed of noncombustible materials. Marquees shall be designed as required in Chapter 16. Structural members shall be protected to prevent deterioration.

SECTION 3107 SIGNS

3107.1 General. Signs shall be designed, constructed and maintained in accordance with this code.

SECTION 3108 RADIO AND TELEVISION TOWERS

3108.1 General. Subject to the provisions of Chapter 16 and the requirements of Chapter 15 governing the fire-resistance-ratings of buildings for the support of roof structures, radio and television towers shall be designed and constructed as herein provided.

3108.2 Location and access. Towers shall be located and equipped with step bolts and ladders so as to provide ready access for inspection purposes. Guy wires or other accessories shall not cross or encroach upon any street or other public space, or over above-ground electric utility lines, or encroach upon any privately owned property without written consent of the owner of the encroached-upon property, space or above-ground electric utility lines.

3108.3 Construction. Towers shall be constructed of approved corrosion-resistant noncombustible material. The minimum type of construction of isolated radio towers not more than 100 feet (30 480 mm) in height shall be Type IIB.

3108.4 Loads. Towers shall be designed to resist wind loads in accordance with EIA/TIA 222-E. Consideration shall be given to conditions involving wind load on ice-covered sections in localities subject to sustained freezing temperatures.

3108.4.1 Dead load. Towers shall be designed for the dead load plus the ice load in regions where ice formation occurs.

3108.4.2 Wind load. Adequate foundations and anchorage shall be provided to resist two times the calculated wind load.

3108.5 Grounding. Towers shall be permanently and effectively grounded.

SECTION 3109 SWIMMING POOL ENCLOSURES

Comm 62.3109 Note: See ch. Comm 90 for requirements for swimming pool enclosures.

CHAPTER 32
ENCROACHMENTS INTO THE PUBLIC RIGHT-OF-WAY

Deleted

CHAPTER 33

SAFEGUARDS DURING CONSTRUCTION

SECTION 3301 GENERAL Deleted

SECTION 3302 CONSTRUCTION SAFEGUARDS

3302.1 Remodeling and additions. Required exits, existing structural elements, fire protection devices and sanitary safeguards shall be maintained at all times during remodeling, alterations, repairs or additions to any building or structure.

Exceptions:

1. When such required elements or devices are being remodeled, altered or repaired, adequate substitute provisions shall be made.
2. When the existing building is not occupied.

3302.2 Deleted.

SECTION 3303 DEMOLITION

3303.1 - 3303.4 Deleted.

3303.5 Water accumulation. Provision shall be made to prevent the accumulation of water or damage to any foundations on the premises or the adjoining property.

3303.6 Deleted.

SECTIONS 3304 - 3306 Deleted

SECTION 3307 PROTECTION OF ADJOINING PROPERTY

Comm 62.3307 Note: Sections 101.111 (1) to (6), Wisconsin Stats., read as follows:

- (1) **DEFINITION.** In this section 'excavator' means any owner of an interest in land making or causing to be made an excavation.
- (2) **CAVE-IN-PREVENTION.** Any excavator shall protect the excavation site in such a manner so as to prevent the soil of adjoining property from caving in or settling.
- (3) **LIABILITY FOR UNDERPINNING AND FOUNDATION EXTENSIONS.**
 - (a) If the excavation is made to a depth of 12 feet (3658 mm) or less below grade, the excavator may not be held liable for the expense of any necessary underpinning or extension of the foundations of buildings on adjoining properties.
 - (b) If the excavation is made to a depth in excess of 12 feet (3658 mm) below grade, the excavator shall be liable for the expense of any necessary underpinning or extension of the foundations of any adjoining buildings below the depth of 12 feet (3658 mm) below grade. The owners of adjoining buildings shall be liable for the expense of any necessary underpinning or extension of the foundations of their buildings to the depth of 12 feet (3658 mm) below grade.

(4) **NOTICE.** Unless waived by adjoining owners, at least 30 days prior to commencing the excavation the excavator shall notify, in writing, all owners of adjoining buildings of his or her intention to excavate. The notice shall state that adjoining buildings may require permanent protection. The owners of adjoining property shall have access to the excavation site for the purpose of protecting their buildings.

(5) **EMPLOYEES NOT LIABLE.** No worker who is an employee of an excavator may be held liable for his or her employer's failure to comply with this section.

(6) **FAILURE TO COMPLY; INJUNCTION.** If any excavator fails to comply with this section, any aggrieved person may commence an action to obtain an order under ch. 813 directing such excavator to comply with this section and restraining the excavator from further violation thereof. If the aggrieved person prevails in the action, he or she shall be reimbursed for all his or her costs and disbursements together with such actual attorney fees as may be approved by the court."

SECTIONS 3308 - 3312 Deleted

CHAPTER 34

EXISTING STRUCTURES

Comm 62.3400 (2) Community-based residential facilities serving 20 or fewer unrelated residents. Where an existing building or portion thereof is converted to a community-based residential facility serving 20 or fewer residents who are not related to the operator or administrator, the building or portion thereof shall be classified as Group R-4. The building or portion thereof shall comply with the provisions of this code that are applicable to a Group R-4 occupancy.

SECTIONS 3401 - 3405 Deleted

SECTION 3406 HISTORIC BUILDINGS

3406.1 [Comm 62.3406] Historic buildings. The construction, repair, alteration, addition, restoration, movement, and change of occupancy of historic buildings shall comply with ch. Comm 70.

SECTION 3407 MOVED STRUCTURES Deleted

SECTION 3408 ACCESSIBILITY FOR EXISTING BUILDINGS

3408.1 [Comm 62.3408 (1)] Scope.

- (a) **General.** Except as specified in par. (b), the requirements in Sections 3408.2 to 3408.7.14 apply to maintenance, change of occupancy, additions and alterations to existing buildings, including those identified as historic buildings.
- (b) **Exception:** When dwelling units are remodeled in housing with three or more dwelling units, the dwelling units shall comply with sub. (4). The term "remodeled" has the meaning given in s. 101.132 (1) (h), Stats., and the term "housing" has the meaning given in s. 106.50 (1) (L), Stats.

Note: Under section 101.132 (1) (h), Wisconsin Stats., "remodel" means to substantially improve, alter, extend or otherwise change the structure of a building or change the location of exits, but does not include maintenance, re-decoration, reroofing or alteration of mechanical or electrical systems.

Note: Under section 106.50 (1) (L), Wisconsin Stats., "housing" means any improved property, or any portion thereof, including a mobile home as defined in s. 66.0435 (1) (d) or condominium, that is used or occupied, or is intended, arranged or designed to be used or occupied, as a home or residence. "Housing" includes any vacant land that is offered for sale or rent for the construction or location thereon of any building, structure or portion thereof that is used or occupied, or is intended, arranged or designed to be used or occupied, as a home or residence.

3408.2 Maintenance of facilities. A building, facility or element that is constructed or altered to be accessible shall be maintained accessible during occupancy.

3408.3 [Comm 62.3408 (2)] Change of occupancy.

- (a) **General.** Except as specified in par. (b), existing buildings, or portions thereof, that undergo a change of group or occupancy shall have all of the following accessible features:
 1. At least one accessible building entrance.
 2. At least one accessible route from an accessible building entrance to primary function areas.
 3. Signage complying with s. Comm 62.1110.
 4. Accessible parking, where parking is provided.
 5. At least one accessible passenger loading zone, when loading zones are provided.
 6. At least one accessible route connecting accessible parking and accessible passenger loading zones to an accessible entrance.
- (b) **Exception.** Where it is technically infeasible to comply with the new construction standards for any of these requirements for a change of group or occupancy, the items specified in subs. 1. to 6. shall conform to the requirements to the maximum extent technically feasible. Change of group or occupancy that incorporates any alterations or additions shall comply with par. (a), subs. (3) and (4), and IBC Sections 3408.4, 3408.5, 3408.6 and 3407.

3408.4 Additions. Provisions for new construction shall apply to additions. An addition that affects the accessibility to, or contains an area of primary function, shall comply with the requirements in Section 3408.6 for accessible routes.

3408.5 [Comm 62.3408 (3)] Alterations.

- (a) **General.** A building, facility or element that is altered shall comply with the applicable provisions in ss. Comm 62.1100 to 62.1110 and ICC/ANSI A117.1, unless technically infeasible. Where compliance with this section is technically infeasible, the alteration shall provide access to the maximum extent technically feasible.
- (b) **Exceptions.**
 1. The altered element or space is not required to be on an accessible route, unless required by IBC Section 3408.6.
 2. Accessible means of egress required by IBC Chapter 10 are not required to be provided in existing buildings or facilities.

3408.5.1 Extent of application. An alteration of an existing element, space, or area of a building or facility shall not impose a requirement for greater accessibility than that which would be required for new construction.

Alterations shall not reduce or have the effect of reducing accessibility of a building, portion of a building, or facility.

Comm 62.3408 (4) Accessibility requirements for remodeled housing.

(a) **Remodeled housing.** When housing with three or more dwelling units is remodeled, the remodeling percentages specified in s. 101.132 (2) (b), Stats., shall be applied, and the remodeling shall comply with the applicable portions of ch. Comm 62.

Note: Section 101.132 (2) (b), Wisconsin Stats., reads as follows:

1. If more than 50 percent of the interior square footage of any housing with 3 or more dwelling units is to be remodeled, the entire housing shall conform to the standards in par. (a), regardless of when the housing was first intended for occupancy.
2. If 25 percent to 50 percent of the interior square footage of any housing with three or more dwelling units is to be remodeled, that part of the housing that is to be remodeled shall conform to the standards in par. (a), regardless of when the housing was first intended for occupancy.
3. If less than 25 percent of the interior square footage of any housing with three or more dwelling units is to be remodeled, the remodeling is not subject to the standards in par. (a) unless the alteration involves work on doors, entrances, exits or toilet rooms, in which case the doors, entrances, exits or toilet rooms shall conform to the standards in par. (a) regardless of when the housing was first intended for occupancy.

(b) **Remodeled buildings with multiple occupancies.**

1. Except as specified in subd. 2., if a building that has multiple occupancies including housing with three or more dwelling units is remodeled, an accessible route shall be provided to the remodeled dwelling units.
2. An accessible route to the remodeled area is not required, if the cost to provide the accessible route exceeds 20 percent of the cost of the alteration, as specified in IBC Section 3408.6.

3408.6 Alterations affecting an area containing a primary function. Where an alteration affects the accessibility to, or contains an area of primary function, the route to the primary function area shall be accessible. The accessible route to the primary function area shall include toilet facilities or drinking fountains serving the area of primary function.

Exceptions:

1. The cost of providing the accessible route is not required to exceed 20 percent of the costs of the alterations affecting the area of primary function.
2. This provision does not apply to alterations limited solely to windows, hardware, operating controls, electrical outlets and signs.
3. This provision does not apply to alterations limited solely to mechanical systems, electrical systems, installation or alteration of fire-protection systems, and abatement of hazardous materials.
4. This provision does not apply to alterations undertaken for the primary purpose of increasing the accessibility of an existing building, facility or element.

3408.7 Scoping for alterations. The provisions of Section 3408.7.1 through 3408.7.14 shall apply to alterations to existing buildings and facilities.

3408.7.1 Elevators. Altered elements of existing elevators shall comply with ASME A17.1 and ICC A117.1. Such elements shall also be altered in elevators programmed to respond to the same hall call control as the altered elevator.

3408.7.2 [Comm 62.3408 (5)] Platform lifts. Platform lifts complying with ICC/ANSI A117.1 and ch. Comm 18 shall be permitted as a component of an accessible route.

3408.7.3 Stairs and escalators in existing buildings. In alterations where an escalator or stair is added where none existed previously, an accessible route shall be provided in accordance with Sections 1104.4 and 1104.5.

3408.7.4 Ramps. Where steeper slopes than allowed by Section 1003.3.4.1 are necessitated by space limitations, the slope of ramps in or providing access to existing buildings or facilities shall comply with Table 3408.7.4.

**TABLE 3408.7.4
RAMPS**

SLOPE	MAXIMUM RISE
Steeper than 1:10 but not steeper than 1:8	3 inches
Steeper than 1:12 but not steeper than 1:10	6 inches

For SI: 1 inch = 25.4 mm.

3408.7.5 Dining areas. An accessible route to raised or sunken dining areas, or to outdoor seating areas is not required provided that the same services and decor are provided in an accessible space usable by any occupant and not restricted to use by people with a disability.

3408.7.6 Performance areas. Where it is technically infeasible to alter performance areas to be on an accessible route, at least one of each type of performance area shall be made accessible.

3408.7.7 Assembly areas. Seating shall adjoin an accessible route that also serves as a means of egress. Where it is technically infeasible to disperse accessible seating throughout an altered assembly area, the minimum required number of wheelchair space clusters shall be one-half of that required by Section 1107.2.2.1. In existing assembly seating areas with a mezzanine, where the main level provides three-fourths or more of the total seating capacity, wheelchair space clusters are permitted to be dispersed on the main level. Each accessible seating area shall have provisions for companion seating.

3408.7.8 Sleeping rooms and accommodations. Where I-1 sleeping rooms, I-2 sleeping rooms or patient rooms, I-3 residential units, or R-1 and R-2 sleeping accommodations are being altered or added, the requirements of Section 1107 for accessible rooms and Chapter 9 for accessible alarms apply only to the quantity of spaces being altered or added.

3408.7.9 Toilet rooms. Where it is technically infeasible to alter existing toilet and bathing facilities to be accessible, an accessible unisex toilet or bathing facility is permitted. The unisex facility shall be located on the same floor and in the same area as the existing facilities.

3408.7.10 Dressing, fitting and locker rooms. Where it is technically infeasible to provide accessible dressing, fitting or locker rooms at the same location as similar types of rooms, one accessible room on the same level shall be pro-

vided. Where separate sex facilities are provided, accessible rooms for each sex shall be provided. Separate sex facilities are not required where only unisex rooms are provided.

3408.7.11 Check-out aisles. Where check-out aisles are altered in facilities having a selling space of 5,000 square feet (465 m²) or more, at least one check-out aisle serving each function shall be made accessible.

3408.7.12 Dispersion of seating at fixed or built-in tables, counters, or work surfaces. Accessible seating at fixed or built-in tables, counters or work surfaces shall be distributed throughout the space or facility as much as technically feasible.

3408.7.13 Sales and service counters. Where it is technically infeasible for existing counters for sales or distribution of goods or services to be made accessible, an accessible auxiliary counter shall be provided.

3408.7.14 Thresholds. The maximum height of thresholds at doorways shall be $\frac{3}{4}$ inch (19.1 mm). Such threshold shall have beveled edges on each side.

3408.8 Historic buildings. These provisions shall apply to buildings and facilities designated as historic structures that undergo alterations or a change of occupancy, unless technically infeasible. Where compliance with the requirements for accessible routes, ramps, entrances or toilet facilities would threaten or destroy the historic significance of the building or facility, as determined by the authority having jurisdiction, the alternative requirements of Section 3408.8.1 through 3408.8.5 for that element shall be permitted.

3408.8.1 Site arrival points. At least one accessible route from a site arrival point to an accessible entrance shall be provided.

3408.8.2 Multilevel buildings and facilities. An accessible route from an accessible entrance to public spaces on the level of the accessible entrance shall be provided.

3408.8.3 Entrances. At least one main entrance shall be accessible.

Exception: If a main entrance cannot be made accessible, an employee or service entrance that is unlocked while the building is occupied shall be made accessible.

The accessible entrance shall have a notification system or be provided with remote monitoring.

3408.8.4 [Comm 62.3408 (6)] Toilet and bathing facilities. Where toilet rooms are provided, at least one accessible toilet room complying with s. Comm 62.1109 (2) (c) shall be provided.

3408.8.5 Ramps. The slope of a ramp run of 24 inches (610 mm) maximum shall not be steeper than one unit vertical in eight units horizontal (12-percent slope).

Comm 62.3408 (7) Definition. TECHNICALLY INFEASIBLE. An alteration of a building or a facility that has little likelihood of being accomplished because the existing structural conditions require the removal or alteration of a loadbearing member that 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 that are in full and strict compliance with the minimum requirements for

new construction and which are necessary to provide accessibility.

**SECTION 3409
COMPLIANCE ALTERNATIVES
Deleted**

CHAPTER 35

REFERENCED STANDARDS

This chapter lists the standards that are referenced in various sections of this document. The standards are listed herein by the promulgating agency of the standard, the standard identification, the effective date and title, and the section or sections of this document that reference the standard. The application of the referenced standards shall be as specified in Section 102.4.

Standard reference number	Title	Referenced in code section number
<p>AA Aluminum Association 900 - 19th Street N.W., Suite 300 Washington, DC 20006</p>		
AA—94	Aluminum Design Manual: Part 1-A Aluminum Structures, Allowable Stress Design; and Part 1- B —Aluminum Structures, Load and Resistance Factor Design of Buildings and Similar Type Structure . . .	1604.3.5, 2002.1
AA ASM 35—80	Aluminum Sheet Metal Work in Building Construction	2002.1

Standard reference number	Title	Referenced in code section number
<p>AAMA American Architectural Manufacturers Association 1827 Waldon Office Square Suite 104 Schaumburg, IL 60173</p>		
AAMA 1402—86	Aluminum Siding, Soffit and Fascia	1404.5.1

Standard reference number	Title	Referenced in code section number
<p>ACI American Concrete Institute P.O. Box 9094 Farmington Hills, MI 48333-9094</p>		
ACI 216.1—97	Standard Method for Determining Fire Resistance of Concrete and Masonry Construction Assemblies . .	Table 719.1(2), 720.1
ACI 318—95	Building Code Requirements for Structural Concrete	2213.1
ACI 318—99	Building Code Requirements for Structural Concrete 1604.3.2, 1604.3.4, 1605.2.1, Table 1617.6, 1617.6.4.3, 1805.4.2.6, 1805.9, 1807.2.23.2, 1808.2.3.2, 1808.2.3.2.2, 1811.8, 1901.2, 1901.3, 1901.4, 1902, 1903.1, 1903.2, 1903.3, 1903.4, 1903.5.1, 1903.6, 1904.4.2, 1905.1.4, 1905.3, 1905.4, 1905.5, 1905.6.5.5, 1905.8.3, 1905.11.3, 1906.1.5, 1906.3, 1906.4.3, 1907.1, 1907.2, 1907.4.1, 1907.6, 1907.7.2, 1907.7.3, 1907.7.4, 1907.8, 1907.9, 1907.10, 1907.11, 1907.12, 1907.13, 1908, 1909.1, 1909.3, 1909.4, 1909.5, 1909.6, 1910.1, 1910.2.1, 1910.2.3, 1910.2.4, 1910.3.1, 1910.4.2, 1910.4.3, 1910.4.4, 1910.4.4.1, 1910.5.2, 1913.1, 1913.2.1, 1913.3.2, 1913.4.4, 1913.4.5, 1913.5.2.7, 1913.8.1	
ACI 530—99	Building Code Requirements for Masonry Structures 1405.5, 1405.5.3, 1405.5.3.1, 1405.9, 1604.3.4, 1805.5.2, 1811.7, 2101.2.3, 2101.2.4, 2104.1, 2104.1.1, 2106.1.1, 2106.1.1.1, 2106.1.1.2, 2106.1.1.3, 2106.1.1.4, 2106.1.1.5, 2106.1.2, 2106.1.2.1, 2106.1.2.2, 2106.1.2.3, 2106.2, 2106.4.2.1, 2106.4.2.2, 2106.5.1, 2107.1, 2107.2, 2107.2.1, 2107.2.2, 2107.2.3, 2107.2.4, 2107.2.5, 2108.6.5, 2108.7.2, 2109.1, 2109.2.3.1	
ACI 530.1—99	Masonry Structures	1405.5.2, 1405.9.1, 1805.5.2, 2104.1, 2104.1.1, 2108.7.2, 2109.1, 2109.2.3.1

REFERENCED STANDARDS

AF&PA

American Forest & Paper Association
1111 19th St, NW Suite 800
Washington, DC 20036

Standard reference number	Title	Referenced in code section number
AF&PA/ASCE 16—95 No. 4—89	Standard for Load and Resistance Factor Design (LRFD) for Engineered Wood Construction	2307.1
WFCM	Plank and Beam Framing for Residential Buildings	2306.1.2
Technical Report 7—87	Wood Frame Construction Manual for One-and Two-family Dwellings, 1995 SBC High-wind Edition, Copyright 1996.	1609.1.1, 2308.2
AF&PA NDS—97	Basic Requirements for Permanent Wood Foundation System	1805.4.6, 1806.2, 2304.9.5
AF&PA	Wood Construction and Supplement 1715.1.4, 1805.4.5, 1808.1, 2306.1, 2306.2.1, 2306.3.2, Table 2306.3.1, Table 2306.4.1, 2306.3.4, 2306.3.5, 2306.4.1, 2308.2.1, Table 2308.9.3(4)	720.6.3.2, 1715.1.1, 2308.2.1, Table 2308.9.3(4)
AF&PA	Span Tables for Joists and Rafters	2306.1.1, 2308.8, 2308.10.2, 2308.10.3

AHA

American Hardwood Association
1210 West N.W. Highway
Palatine, IL 60067

Standard reference number	Title	Referenced in code section number
AHA A135.4—95	Basic Hardboard	1404.3.1, 2303.1.6
AHA A135.5—95	Prefinished Hardboard Paneling	2303.1.6, 2304.6.2
AHA A135.6—98	Hardboard Siding	1404.3.2, 2303.1.6
AHA 194.1—85	Cellulosic Fiber Board	2303.1.5

AISC

American Institute of Steel Construction
One East Wacker Drive, Suite 3100
Chicago, IL 60601-2001

Standard reference number	Title	Referenced in code section number
AISC ASD (1989)	Specification for Structural Steel Buildings—Allowable Stress Design and Plastic Design	1604.3.3, 1621.3.13.2, Table 1617.6, 2203.2, 2204
AISC LRFD (1993)	Load and Resistance Factor Design Specification for Structural Steel Buildings, including Supplement No. 1 Dated January 1998	1604.3.3, Table 1617.6, 2203.2, 2204, 2213.1
AISC HSS (1997)	Specification for the Design of Steel Hollow Structural Sections	1604.3.3, Table 1617.6, 2203.2, 2204
AISC Seismic (1997)	Seismic Provisions for Structural Steel Buildings, including Supplement No. 1 dated 1999	Table 1617.6, 1622.3.4.1, 2212.1.1, 2212.1.2, 2213.1, 2213.2

AISI

American Iron and Steel Institute
1101 - 17th Street, N.W., Suite 1300
Washington, DC 20036-4700

Standard reference number	Title	Referenced in code section number
AISI (1996)	Specification for Design of Cold-formed Steel Structural Members	1604.3.3, 2205.1, 2211.1

AITC

American Institute of Timber Construction
 Suite 140
 7012 S. Revere Parkway
 Englewood, CO 80112

Standard reference number	Title	Referenced in code section number
AITC A 190.1—92	Structural Glued Laminated Timber	2303.1.3, 2306.1
AITC Technical Note 7—1996	Calculation of Fire Resistance of Glued Laminated Timbers	720.6.3.3
AITC 104—84	Typical Construction Details	2306.1
AITC 110—97	Standard Appearance Grades for Structural Glued Laminated Timber	2306.1
AITC 112—93	Standard for Tongue-and-Groove Heavy Timber Roof Decking	2306.1
AITC 113—93	Standard for Dimensions of Structural Glued Laminated Timber	2306.1
AITC 117—93	Standard Specifications for Structural Glued Laminated Timber of Softwood Species — Design, with February 27, 1998 Addendum Standard Specifications for Structural Glued Laminated Timber of Softwood Species — Manufacturing	2306.1
AITC 119—96	Standard Specifications for Structural Glued Laminated Timber of Hardwood Species	2306.1
AITC 200—92	Inspection Manual	2306.1
AITC 500—91	Determination of Design Values for Structural Glued Laminated Timber	2306.1

ALI

Automotive Lift Institute
 P.O. Box 33116
 Indialantic, FL 32903-3116

Standard reference number	Title	Referenced in code section number
ALI ALCTV—98	Standard for Automotive Lifts—Safety Requirements for Construction, Testing and Validation	3001.2

ANSI

American National Standards Institute
 25 West 43rd Street, Fourth Floor
 New York, NY 10036

Standard reference number	Title	Referenced in code section number
ANSI A 13.1—96	Scheme for Identification of Piping Systems	415.9.6.4
ANSI A 42.2—71	Portland Cement and Portland Cement Lime Plastering, Exterior (Stucco) and Interior	2109.8.4.6
ANSI A 42.3—71	Lathing and Furring for Portland Cement and Portland Cement Lime Plastering, Exterior Stucco and Interior	2109.8.4.6
ANSI A 108.1A&B—92	Glazed Wall Tile, Ceramic Mosaic Tile, Quarry Tile and Paver Tile Installed with Portland Cement Mortar	2103.9
ANSI A 108.4—92	Ceramic Tile Installed with Organic Adhesives or Water-cleanable Tile Setting Epoxy Adhesives	2103.9.7
ANSI A 108.5—92	Ceramic Tile Installed with Dry-set Portland Cement Mortar or Latex Portland Cement Mortar	2103.9.1, 2103.9.2, 2103.9.3
ANSI A 108.6—92	Ceramic Tile Installed with Chemical-resistant, Water Cleanable Tile-setting-and-grout Epoxy	2103.9.4
ANSI A 108.8—92	Ceramic Tile Installed with Chemical-resistant Furan Mortar and Grout	2103.9.5
ANSI A 108.9—92	Ceramic Tile Installed with Modified Epoxy Emulsion Mortar/Grout	2103.9.6
ANSI A 108.10—92	Installation of Grout in Tilework	2103.9.8
ANSI A 118.1—92	Dry-set Portland Cement Mortar	2103.9.1
ANSI A 118.2—92	Conductive Dry-set Portland Cement Mortar	2103.9.2
ANSI A 118.3—92	Chemical-resistant, Water-cleanable Tile-setting and Grouting Epoxy and Water Cleanable Tile-setting Epoxy Adhesive	2103.9.4
ANSI A 118.4—92	Latex-portland Cement Mortar	2103.9.3
ANSI A 118.5—92	Specifications for Chemical Resistant Furan	2103.9.5
ANSI A 118.6—92	Ceramic Tile Grouts	2103.9.8
ANSI A 118.8—92	Modified Epoxy Emulsion Mortar/Grout	2103.9.6
ANSI A 136.1—92	Organic Adhesives for Installation of Ceramic Tile	2103.9.7
ANSIA 137.1—88	Ceramic Tile	2103.4
ANSI A 208.1—93	Particleboard	2303.1.7, 2303.1.7.1
ANSI B 31.3—99	Chemical Plant and Petroleum Refinery Piping Including Addendum	415.9.6.1
ANSI Z 97.1—84	Safety Glazing Materials used in Buildings-safety Performance Specifications and Methods of Test	2406.1, 2406.1.2, 2407.1

REFERENCED STANDARDS

ASAE

American Society of Agricultural Engineers
2950 Niles Road
St. Joseph, MI 49085-9659

Standard reference number	Title	Referenced in code section number
ASAE EP 484.2	Diaphragm Design of Metal-Clad, Post-Frame Rectangular Buildings	2306.1
ASAE 559	Design Requirements and Bending Properties for Mechanically Laminated Columns	2306.1

ASCE

American Society of Civil Engineers
1801 Alexander Bell Drive
Reston, VA 20191-4400

Standard reference number	Title	Referenced in code section number
ASCE 3—84	Standard for the Structural Design of Composite Slabs	1604.3.3, 2205.2
ASCE 5—99	Building Code Requirements for Masonry Structures	1405.5, 1405.5.3, 1405.5.3.1, 1405.9 1604.3.4, 1811.7, 2101.2.3, 2101.2.4, 2106.1.1, 2106.1.1.1, 2106.1.1.2, 2106.1.1.3, 2106.1.1.4, 2106.1.1.5, 2106.1.2, 2106.1.2.1, 2106.1.2.2, 2106.1.2.3, 2106.2, 2106.4.2.1, 2106.4.2.2, 2106.5.1, 2107.1, 2107.2, 2107.2.1, 2107.2.2, 2107.2.3, 2107.2.4, 2107.2.5, 2108.6.5, 2109.1, 2109.2.3.1
ASCE 6—99	Specifications for Masonry Structures	1405.5.2, 1405.9.1, 1805.5.2, 2104.1, 2104.1.1, 2108.7.2
ASCE 7—98	Minimum Design Loads for Buildings and Other Structures	1605.2.1, 1605.2.2, 1605.3.1.2, 1605.3.2, 1605.3.3, 1608.1, 1608.3, 1608.3.4, 1608.3.5, 1608.4, 1608.5, 1608.6, 1608.7, 1608.8, 1608.9, 1609.1.1, 1609.2, 1609.3, 1609.7.3, 1619
ASCE 8—90	Standard Specifications for the Design of Cold-formed Stainless Steel Structural Members	1604.3.3, 2205.1, 2211.1
ASCE 16—95	Standard for Load Resistance Factor Design (LRFD) for Engineered Wood Construction	2307.1
ASCE 19—95	Structural Applications of Steel Cables for Buildings	2207.1, 2207.2
ASCE 24—98	Flood Resistant Design and Construction	1202.3.2, 3001.2

ASME

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

Standard reference number	Title	Referenced in code section number
ASME A17.1—96	Safety Code for Elevators and Escalators — with A17.1a-97 and A17.1b-98 Addenda	1003.2.13.3, 1003.2.13.4, 1607.8.1, 1621.3.14, 1621.3.14.1, 1621.3.14.3, 3001.2, 3001.4, 3002.5, 3003.2, 3408.7.1, 3408.7.2
ASME A90.1—97	Safety Standard for Belt Manlifts — with A90.1a-95 Addendum	3001.2
ASME B 16.18-84 (R94)	Cast Copper Alloy Solder Joint Pressure Fittings	909.13.1
ASME B 16.22—95	Wrought Copper and Copper Alloy Solder Joint Pressure Fittings with B16.22a-98 Addendum	909.13.1
ASME B 20.1—97	Safety Standard for Conveyors and Related Equipment — with B20.1a-94 Addendum	3001.2, 3005.3
ASME B31.1—98	Power Piping	1621.3.10.2
ASME B31.3—96	Process Piping	1621.3.10.2
ASME B31.4—92	Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids	1621.3.10.2
ASME B31.5—92	Refrigeration Piping	1621.3.10.2
ASME B31.8—95	Gas Transmission and Distribution Systems	1621.3.10.2
ASME B31.9—97	Building Services Piping	1621.3.10.2
ASME B31.11—89 (Reaffirmed 1998)	Slurry Transportation Piping Systems	1621.3.10.2
ASME-B31.4—95	Boilers and Pressure Vessels Code	1621.3.11.1



ASTM International
 100 Barr Harbor Drive
 West Conshohocken, PA 19428-2959

Standard reference number	Title	Referenced in code section number
A 36M—97a	Specification for Carbon Structural Steel	1808.3.1, 2103.11.5
A 82—97a	Specification for Steel Wire, Plain, for Concrete Reinforcement	2103.11.5
A 153M—95	Specification for Zinc Coating (Hot-dip) on Iron and Steel Hardware	2103.11.6
A 167—96	Specification for Stainless and Heat-Resisting Chromium-nickel Steel Plate, Sheet and Strip	2103.11.5, 2103.11.6
A 185—97	Specification for Steel Welded Wire Fabric, Plain for Concrete Reinforcement	2103.11.4, 2103.11.5
A 252—98	Specification for Welded and Seamless Steel Pipe Piles	1808.3.1, 1809.6.1
A 283/A 283M—98	Specification for Low and Intermediate Tensile Strength Carbon Steel Plates	1808.3.1, 1809.6.1
A 307—97	Specification for Carbon Steel Bolts and Studs, 60,000 psi Tensile Strength	1912.1
A 366/A366M—97	Specification for Commercial Steel (CS) Sheet Carbon (0.15 maximum percent)	2103.11.5
A 416/416M—99	Specification for Steel Strand, Uncoated Seven-wire for Prestressed Concrete	1808.2.3.1
A 496—97a	Specification for Steel Wire, Deformed for Concrete Reinforcement	2103.11.3, 2103.11.4
A 572/A 572M—97c	Specification for High-strength Low-alloy Columbian-vanadium Structural Steel	1808.3.1
A 588/A 588M—97a	Specification for High-strength Low-alloy Structural Steel with 50 ksi (345 Mpa) Minimum Yield Point to 4 inches (102 mm) Thick	1808.3.1
A 615M—96a	Specification for Deformed and Plain Billet-steel Bars for Concrete Reinforcement	1908.1.8, 2103.11.1
A 616/A 616M—96a	Specification for Rail-Steel Deformed and Plain Bars for Concrete Reinforcement	2103.11.1
A 617/A 617M—96a	Specification for Axle-steel Deformed and Plain Bars for Concrete Reinforcement	2103.11.1
A 641—98	Specification for Zinc-coated (Galvanized) Carbon Steel Wire	2103.11.6
A 653/A 653M—97a	Specification for Steel Sheet, Zinc-coated or Zinc-coated (Galvanized or Zinc-iron Alloy-Coated) by the Hot-dip Process	Table 1507.4.3, 2211.2.1, 2211.5
A 706/A 706M—98	Specification for Low-alloy Steel Deformed and Plain Bars for Concrete Reinforcement	1903.5.2, 1908.1.8, 2103.11.1
A 755/A 755M—96	Specification for Steel Sheet, Metallic-coated by the Hot-dip Process and Prepainted by the Coil-coating Process for Exterior Exposed Building Products	Table 1507.4.3
A 767/A 767M—97	Specification for Zinc-coated (Galvanized) Steel Bars for Concrete Reinforcement	2103.11.1
A775/A 775M—97	Specification for Epoxy-coated Reinforcing Steel Bars	2103.11.1
A 792/A 792M—97a	Specification for Steel Sheet, 5% Aluminum-zinc Alloy-coated by the Hot-dip Process	Table 1507.4.3, 2211.2.1, 2211.5
A 875M—97a	Specification for Steel Sheet Zinc-54° Aluminum Alloy-Coated by the Hot Dip Process	2211.2.1, 2211.5
A 913/A913M—97	Specification for High-strength Low-alloy Steel Shapes of Structural Quality, Produced by Quenching and Self-tempering Process (QST)	1808.3.1
A 951—98	Specification for Masonry Joint Reinforcement	2103.11.2, 2103.11.6
B 42—98	Specification for Seamless Copper Pipe, Standard Sizes	909.13.1
B 43—98	Specification for Seamless Red Brass Pipe, Standard Sizes	909.13.1
B 68M—95	Specification for Seamless Copper Tube, Bright Annealed [METRIC].	909.13.1
B 88—96	Specification for Seamless Copper Water Tube	909.13.1
B 101—96	Specification for Lead-coated Copper Sheet and Strip for Building Construction	Table 1507.4.3
B 251—97	Specification for General Requirements for Wrought Seamless Copper and Copper-alloy Tube	909.13.1
B 280—98	Specification for Seamless Copper Tube for Air Conditioning and Refrigeration Field Service	909.13.1
B 633—98 (Reapproved 1994)	Specification for Electrodeposited Coatings of Zinc on Iron and Steel	2211.2
C 5—98	Specification for Quicklime for Structural Purposes	Table 2507.2
C 22/C 22M—96	Specification for Gypsum	Table 2506.2
C 27—98	Specification for Standard Classification of Fireclay and High-alumina Refractory Brick	2111.5, 2111.8
C 28—96	Specification for Gypsum Plasters	Table 2507.2
C 31/31M—96	Standard Practice for Making and Curing Concrete Test Specimens in the Field	1905.6.3.2, 1905.6.4.2
C 33—97	Specification for Concrete Aggregates	720.3.1.4, 720.4.1.1.3, Table 1904.2.1
C 34—96	Specification for Structural Clay Load-bearing Wall Tile	2103.2
C 35—95	Specification for Inorganic Aggregates for Use in Gypsum Plaster	Table 2507.2
C 36—97	Specification for Gypsum Wallboard	Figure 720.5.1(3), Table 720.5.1(2), Table 2506.2
C 37—95	Specification for Gypsum Lath	Table 2507.2
C 39—96	Standard Test Method for Compressive Strength of Cylindrical Specimens	1905.6.3.2

REFERENCED STANDARDS

ASTM—continued

C 42—94	Standard Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	1905.6.5.2
C 55—97	Specification for Concrete Brick	Table 720.3.2, 2103.1, 2105.2.2.1.2
C 56—96	Specification for Structural Clay Non-load Bearing Tile	2103.2
C 59—95	Specification for Gypsum Casting and Molding Plaster	Table 2507.2
C 61—95	Specification for Gypsum Keene’s Cement	Table 2507.2
C 62—97a	Specification for Building Brick (Solid Masonry Units Made from Clay or Shale)	2103.2, 2105.2.2.1.1
C 67—98	Standard Test Methods of Sampling and Testing Brick and Structural Clay Tile	720.4.1.1.1, 1507.3.5, 2104.5, 2105.2.2.1.1, 2109.8.1.1
C 73—99	Specification for Calcium Silicate Face Brick (Sand-lime Brick)	Table 720.3.2, 2103.1
C 79M—97	Specification for Treated Core and Non-treated Core Gypsum Sheathing Board	Table 2506.2
C 90—99	Specification for Loadbearing Concrete Masonry Units	Table 720.3.2, 1805.5.2, 2103.1, 2105.2.2.1.2
C 91—97	Specification for Masonry Cement	Table 2103.7(1), Table 2507.2
C 94—98	Specification for Ready-mix Concrete	1905.8.2
C 126—96	Specification for Ceramic Glazed Structural Clay Facing Tile, Facing Brick, and Solid Masonry Units	2103.2
C 140—98	Standard Test Method Sampling and Testing Concrete Masonry Units	720.3.1.2, 1507.3.5, 2105.2.2.1.2
C 150—97a	Specification for Portland Cement	1904.1, Table 1904.2.3, Table 2103.7(1), Table 2507.2
C 172—97	Standard Practice for Sampling Freshly Mixed Concrete	1905.6.3.1
C 199—84 (Reapproved 1994)	Standard Test Method for Pier Test for Refractory Mortars	2111.5, 2111.8, 2113.12
C 206—84 (1997)	Specification for Finishing Hydrated Lime	Table 2507.2
C 212—96	Specification for Structural Clay Facing Tile	2103.2
C 216—98	Specification for Facing Brick (Solid Masonry Units Made from Clay or Shale)	2103.2, 2105.2.2.1.1
C 270—99	Specification for Mortar for Unit Masonry	2103.7, Table 2103.7(2), 2105.4
C 315—98b	Specification for Clay Flue Linings	2113.11.1, Table 2113.16(1), Table 2113.16(2)
C 317—93a	Specification for Gypsum Concrete	1915.1
C 330—97	Specification for Lightweight Aggregates for Structural Concrete	702.1, 1905.1.4
C 331—98	Specification for Lightweight Aggregates for Concrete Masonry Units	720.3.1.4, 720.4.1.1.3
C 406—89 (1996)	Specification for Roofing Slate	1507.7.4
C 442—97 (1988)	Specification for Gypsum Backing Board and Coreboard	Table 2506.2
C 472—93	Specification for Standard Test Methods for Physical Testing of Gypsum, Gypsum Plasters and Gypsum Concrete	Table 2506.2
C 473—97	Specification for Standard Test Method for Physical Testing of Gypsum Panel Products	Table 2506.2
C 474—97	Standard Test Methods for Joint Treatment Materials for Gypsum Board Construction	Table 2506.2
C 475—94	Specification for Joint Compound and Joint Tape for Finishing Gypsum Board	Table 2506.2
C 476—99	Specification for Grout for Masonry	2103.10, 2105.2.2.1.1, 2105.2.2.1.2
C 503—97	Specification for Marble Dimension Stone (Exterior)	2103.3
C514—96	Specification for Nails for the Application of Gypsum Board	Table 719.1(2), Table 719.1(3), Table 2306.4.5, Table 2506.2
C 516—80 (1990)	Specifications for Vermiculite Loose Fill Thermal Insulation	720.3.1.4, 720.4.1.1.3
C 547—95	Specification for Mineral Fiber Pipe Insulation	Table 719.1(2), Table 719.1(3)
C 549—81 (1995)	Specification for Perlite Loose Fill Insulation	720.3.1.4, 720.4.1.1.3
C 557—93a	Specification for Adhesives for Fastening Gypsum Wallboard to Wood Framing	Table 2506.2
C 568—96	Specification for Limestone Dimension Stone	2103.3
C 587—97	Specification for Gypsum Veneer Plaster	Table 2507.2
C 588—95a	Specification for Gypsum Base for Veneer Plasters	Table 2507.2
C 595—95a	Specification for Blended Hydraulic Cements [METRIC]	1904.1, Table 1904.2.3, Table 2103.7(1), Table 2507.2
C 615—96	Specification for Granite Dimension Stone	2103.3
C 616—97	Specification for Quartz-based Dimension Stone	2103.3
C 618—97	Specification for Fly Ash and Raw or Calcined Natural Pozzolan for Use as a Mineral Admixture in Portland Cement Concrete	1904.1, Table 1904.2.3
C 629—97	Specification for Slate Dimension Stone	2103.3
C 630/C 630M—96a	Specification for Water-resistant Gypsum Backing Board	Table 2506.2
C 631—95a	Specification for Bonding Compounds for Interior Gypsum Plastering	Table 2507.2
C 635—97	Specification for the Manufacturer, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings	803.8.1.1, 2506.2.1
C 636—96	Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels	803.8.1.1
C 645—99	Specification for Non-load (Axial) Bearing Steel Studs, Runners (Tracks) and Rigid Furring Channels for Screw Application of Gypsum Board	Table 2506.2, Table 2507.2
C 652—97	Specification for Hollow Brick (Hollow Masonry Units Made from Clay or Shale)	2103.2, 2105.2.2.1.1
C 685—98a	Specification for Concrete Made by Volumetric Batching and Continuous Mixing	1905.8.2
C 744—98	Specification for Prefaced Concrete and Calcium Silicate Masonry Units	2103.1

ASTM—continued

C 754—97	Specification for Installation of Steel Framing Members to Receive Screw-attached Gypsum Panel Products	Table 2508.1, Table 2511.1
C 780—96	Standard Test Method for Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry	2105.4
C 836—95	Specification for High-solids Content, Cold Liquid-applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course	1507.15.2
C 840—98	Specification for Application and Finishing of Gypsum Board	Table 2508.1, 2509.1.2
C 841—97	Specification for Installation of Interior Lathing and Furring	Table 2508.1, Table 2511.1
C 842—97a (1990)	Specification for Application of Interior Gypsum Plaster	Table 2511.1, 2511.3, 2511.4
C 843—98	Specification for Application of Gypsum Veneer Plaster	Table 2511.1
C 844—98a	Specification for Application of Gypsum Base to Receive Gypsum Veneer Plaster	Table 2508.1
C 845—96	Specification for Expansive Hydraulic Cement	1904.1, Table 1904.2.3
C 847—95	Specification for Metal Lath	Table 2507.2
C 887—79a (1996) ^{el}	Specification for Packaged, Dry Combined Materials for Surface Bonding Mortar	1806.2.2, 2103.8
C 897—88 (1993) ^{el}	Standard Practice for Vapor Attack on Refractories for Furnace Superstructures	Table 2507.2
C 926—98	Specification for Application of Portland Cement Based Plaster	2510.3, Table 2511.1, 2511.3, 2511.4, 2512.1, 2512.1.2, 2512.2, 2512.6, 2512.8.2, 2513.7, 2512.9
C 931, C931M—97	Specification for Exterior Gypsum Soffit Board	Table 2506.2
C 932—98	Specification for Surface-applied Bonding Compounds for Exterior Plastering	Table 2507.2
C 933—96a	Specification for Welded Wire Lath	Table 2507.2
C 946—91 (1996) ^{el}	Specification for Practice for Construction of Dry-stacked, Surface-bonded Walls	2103.8, 2109.2.3.2
C 954—98	Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Steel Studs from 0.033 inch (0.84 mm) to 0.112 inch (2.84 mm) in Thickness	2211.4.3, Table 2506.2, Table 2507.2
C 955—98	Specification for Load Bearing (Transverse and Axial) Steel Studs, Runners (Tracks), and Bracing or Bridging, for Screw Application of Gypsum Panel Products and Metal Plaster Bases	Table 2506.2, Table 2507.2
C 956—81 (1986)	Specification for Installation of Cast-in-place Reinforced Gypsum Concrete	1915.1
C 957—93	Specification for High-solids Content, Cold Liquid-applied Elastomeric Waterproofing Membrane with Integral Wearing Surface	1507.15.2
C 960—97	Specification for Predecorated Gypsum Board	Table 2506.2
C 989—97b	Specification for Ground Granulated Blast-furnace Slag for Use in Concrete and Mortars	1904.1, Table 1904.2.3
C 1002—98	Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases	Table 2506.2, Table 2507.2
C 1007—97 (1990)	Specification for Installation of Load Bearing (Transverse and Axial) Steel Studs and Related Accessories	Table 2508.1, Table 2511.1
C 1019—98a	Standard Test Method of Sampling and Testing Grout	2105.2.2.1.1, 2105.2.2.1.2, 2105.5
C 1029—96	Specification for Spray-applied Rigid Cellular Polyurethane Thermal Insulation	1507.14.2
C 1032—96	Specification for Woven Wire Plaster Base	Table 2507.2
C 1047—98	Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base	Table 2506.2, Table 2507.2
C 1063—98	Specification for Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement Based Plaster	2510.3, Table 2511.1, 2512.1.1
C 1088—96	Specification for Thin Veneer Brick Units Made from Clay or Shale	2103.2
C 1157—95	Standard Performance Specification for Hydraulic Cements	1903.2, 1904.1, Table 1904.2.3
C 1167—96	Specification for Clay Roof Tiles	1507.3.4, 1507.3.5
C 1177/C 1177M—96	Specification for Glass Mat Gypsum Substrate for Use as Sheathing	Table 2506.2
C 1178/C 1178M—96	Specification for Glass Mat Water-resistant Gypsum Backing Panel	Table 2506.2
C 1218—97	Standard Test Method for Water-soluble Chloride in Mortar and Concrete	1904.4.1
C 1240—98	Specification for Silica Fume for Use as a Mineral Admixture in Hydraulic-cement Concrete, Mortar and Grout	1904.1, Table 1904.2.3
C 1261—98	Specification for Firebox Brick for Residential Fireplaces	2111.5, 2111.8
C 1278/C 1278M—96	Specification for Standard Specification for Fiber-reinforced Gypsum Panels	Table 2506.2
C 1280—98	Specification for Application of Gypsum Sheathing	Table 2506.2, Table 2508.1, Table 2508.2
C 1283-99	Standard Practice for Installing Clay Flue Liners	2113.12
C 1314—98	Standard Test Method for Construction and Testing Masonry Prisms Used to Determine Compliance with Specified Compressive Strength of Masonry	2105.2.2.2.2, 2105.2.2.2.3, 2105.3.1, 2105.3.2
C 1328—98	Specification for Plastic (Stucco Cement)	Table 2507.2
C 1329—98	Specification for Mortar Cement	Table 2103.7(1)
C 1395/1395M—98	Specification for Gypsum Ceiling Board	Table 2506.2
D 25—91	Specification for Round Timber Piles	1808.1.1
D 41—94	Specification for Asphalt Primer Used in Roofing, Dampproofing and Waterproofing	Table 1507.10.2
D 56—98a	Standard Test Method for Flash Point By Tag Closed Tester	307.2

REFERENCED STANDARDS

ASTM—continued

D 86—99	Standard Test Method for Distillation of Petroleum Products at Atmospheric Pressure.	307.2
D 93—99	Standard Test Method for Flash Point By Pensky-Martens Closed Cup Tester	307.2
D 224—89 (1996)	Specification for Smooth-Surfaced Asphalt Roll Roofing (Organic Felt).	1507.2.9.2, 1507.6.4
D 225—95	Specification for Asphalt Shingles (Organic Felt) Surfaced with Mineral Granules	1507.2.5
D 226—97a	Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing.	1404.2, Table 1507.2, 1507.2.3, 1507.3.3, 1507.5.3, 1507.6.3, 1507.7.3, Table 1507.8, 1507.8.3, 1507.9.3, 1507.9.4, Table 1507.10.2
D 227—97a	Specification for Coal-tar-saturated Organic Felt Used in Roofing and Waterproofing.	Table 1507.10.2
D 249—89 (1996)	Specification for Asphalt Roll Roofing (Organic Felt) Surfaced with Mineral Granules	1507.3.3, 1507.6.4
D 312—95a	Specification for Asphalt Used in Roofing	Table 1507.10.2
D 371—89 (1996)	Specification for Asphalt Roll Roofing (Organic Felt) Surfaced with Mineral Granules: Wide-selvage.	1507.6.4
D 422—63 (1990)	Standard Test Method for Particle-size Analysis of Soils.	1802.3.2
D 450—96	Specification for Coal-tar Pitch Used in Roofing, Dampproofing and Waterproofing.	Table 1507.10.2
D 635—97	Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position	2606.4
D 1143—81 (1994) el	Standard Test Method for Piles Under Static Axial Compressive Load	1807.2.8.3
D 1227—95	Specification for Emulsified Asphalt Used as a Protective Coating for Roofing	Table 1507.10.2, 1507.15.2
D 1557—91	Standard Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort	1803.4
D 1586—99	Specification for Penetration Test and Split-barrel Sampling of Soils	1615.1.5
D 1761—88 (1995) el	Standard Test Method for Mechanical Fasteners in Wood	1715.1.1, 1715.1.2, 1715.1.3
D 1863—93 (1996)	Specification for Mineral Aggregate Used on Built-up Roofs	Table 1507.10.2
D 1929—96	Standard Test Method for Ignition Properties of Plastics	402.14.4, 406.5.2, 1407.10.2.1, 2606.4
D 1970—97	Specification for Self-adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roof Underlayment for Ice Dam Protection	1507.2.4, 1507.2.9.2
D 2166—98a	Standard Test Method for Unconfined Compressive Strength of Cohesive Soil	1615.1.5
D 2178—97a	Specification for Asphalt Glass Felt Used in Roofing and Waterproofing	Table 1507.10.2
D 2216—92	Standard Test Method for Laboratory Determination of Water (Moisture) Content of Soil and Rock by mass	1615.1.5
D 2487—93	Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System)	Table 1610.1, 1802.3.1
D 2626—97b	Specification for Asphalt Saturated and Coated Organic Felt Base Sheet Used in Roofing	1507.3.3, Table 1507.10.2
D 2822—91(97) el	Specification for Asphalt Roof Cement	Table 1507.10.2
D 2823—90(97) el	Specification for Asphalt Roof Coatings	Table 1507.10.2
D 2843—93	Standard Test for Density of Smoke from the Burning or Decomposition of Plastics	2606.4
D 2850—95	Standard Test Method for Unconsolidated, Undrained Strength of Cohesive Soils in Triaxial Compression	1615.1.5
D 2898—94 (1999)	Standard Test Methods for Accelerated Weathering of Fire-retardant-treated Wood for Fire Testing	1505.1, 1505.6, 2303.2.3
D 3019—94	Specification for Lap Cement Used with Asphalt Roll Roofing, Non-fibered, Asbestos Fibered, and Non Asbestos Fibered.	Table 1507.10.2
D 3201—94 (1998) el	Standard Test Method for Hygroscopic Properties of Fire-retardant Wood and Wood-base Products	2303.2.4
D 3278—96	Standard Test Methods for Flash Point of Liquids by Small Scale Closed-cup Apparatus.	307.2
D 3462—96	Specification for Asphalt Shingles Made from Glass Felt and Surfaced with Mineral Granules	1507.2.5
D 3468—90	Specification for Liquid-applied Neoprene and Chlorosulfonated Polyethylene Used in Roofing and Waterproofing	1507.15.2
D 3679—96a	Specification for Rigid Poly [Vinyl Chloride (PVC) Siding].	1404.9, 1405.13
D 3689—90 (1995)	Specification for Individual Piles Under Static Axial Tensile Load	1807.2.8.5
D 3737—96	Standard Practice for Establishing Stresses for Structural Glued Laminated Timber (Glulam)	2303.1.3
D 3746—85 (1996) el	Specification for Test Method for Impact Resistance of Bituminous Roofing Systems	1504.6
D 3747—79(1995)	Specification for Emulsified Asphalt Adhesive Roof Insulation	Table 1507.10.2
D 3909—97b	Specification for Asphalt Roll Roofing (Glass Felt) Surfaced with Mineral Granules.	1507.6.4, Table 1507.10.2
D 4022—94	Specification for Coal Tar Roof Cement, Asbestos Containing	Table 1507.10.2
D 4272—96	Standard Test Method for Total Energy Impact of Plastic Films by Dart Drop	1504.6
D 4318—98	Standard Test Method for Liquid Limit, Plastic Limit, and Plasticity Index of Soils	1615.1.5, 1802.3.2
D 4434—96	Specification for Poly (Vinyl Chloride) Sheet Roofing	1507.13.2
D 4479—93	Specification for Asphalt Roof Coatings - Asbestos-Free	Table 1507.10.2
D 4586—93	Specification for Asphalt Roof Cement, Asbestos-Free	Table 1507.10.2
D 4601—98	Specification for Asphalt-coated Glass Fiber Base Sheet Used in Roofing	Table 1507.10.2
D 4637—96	Specification for EPDM Sheet Used in Single-ply Roof Membrane	1507.12.2

ASTM—continued

D 4869—89 (1993) ^{e1}	Specification for Asphalt-saturated Organic Felt Shingle Underlayment Used in Roofing	Table 1507.2, 1507.2.3
D 4897—98	Specification for Asphalt-coated Glass Fiber Venting Base Sheet Used in Roofing	Table 1507.10.2
D 4990—97a	Specification for Coal Tar Glass Felt Used in Roofing and Waterproofing	Table 1507.10.2
D 4945—96	Test Method for High-Strain Dynamic Testing of Piles	P1807.2.8.3
D 5055—97 ^{e1}	Specification for Establishing and Monitoring Structural Capacities of Prefabricated Wood I-joists	2303.1.2
D 5456—98	Specification for Evaluation of Structural Composite Lumber Products	2303.1.9
D 5643—94	Specification for Coal Tar Roof Cement, Asbestos-Free	Table 1507.10.2
D 5665—97a	Specification for Thermoplastic Fabrics Used in Cold-Applied Roofing and Waterproofing	Table 1507.10.2
D 5726—97a	Specification for Thermoplastic Fabrics Used in Hot-Applied Roofing and Waterproofing	Table 1507.10.2
D 6083—97a	Specification for Liquid Applied Acrylic Coating Used in Roofing	Table 1507.10.2, 1507.15.2
D 6162—98	Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using a Combination of Polyester and Glass Fiber Reinforcements	1507.11.2
D 6163—97	Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using Glass Fiber Reinforcements	1507.11.2
D 6164—98	Specification for Styrene (SBS) Modified Bituminous Sheet Metal Materials Using Polyester Reinforcements	1507.11.2
E 84—98 ^{e1}	Standard Test Methods for Surface Burning Characteristics of Building Materials	402.14.4, 406.5.2, 410.3.5.3, 703.4.2, 718.1, 718.4, 802.1, 803.1, 803.5.1, 803.5.2, 1407.9.1, 1407.10.1.2, 1407.10.2.1, 1407.11.1, 2303.2, 2303.3, 2603.3, 2603.5.4, 2604.2.4, 2606.4, 3105.3
E 90—97	Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements	1206.2
E 96—95	Standard Test Method for Water Vapor Transmission of Materials	1202.2, 1403.3
E 108—96	Standard Test Method for Fire Tests of Roof Coverings	1505.1, 1505.6, 2603.6, 2610.2, 2610.3
E 111—97	Standard Test Method for Young's Modulus, Tangent Modulus and Chord Modulus	2108.7.2
E 119—98	Standard Test Methods for Fire Tests of Building Construction and Materials	410.3.5.2, 703.2, 703.2.1, 703.2.3, 703.3, 704.7, 704.9, 706.6, 711.3.1, 711.4.1, 711.4.6, 712.1, 712.4, 714.3.8, 715.5.2, 715.5.3.1, 715.6.2, Table 719.1(1), 1407.9.2, 2103.2, 2603.4, 2603.5.1
E 136—98 ^{e1}	Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C.	703.4.1
E 331—93	Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference	1403.2
E 492—90 (1996) ^{e1}	Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor- ceiling Assemblies Using the Tapping Machine	1206.3
E 681—98	Standard Test Methods for Concentration Limits of Flammability of Chemicals (Vapors and Gases).	307.2
E 814—97	Standard Test Method of Fire Tests of Through-penetration Fire Stops	702.1, 711.3.1.2, 711.4.1.2
E 970—98	Standard Test Method for Critical Radiant Flux of Exposed Attic Floor Insulation Using a Radiant Heat Energy Source	718.3.1
E 1300—98	Standard Practice for Determining Load Resistance of Glass in Buildings	Table 2404.1, Table 2404.2
E 1592—95	Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference.	1504.3.2
E 1602—94	Standard Guide for Construction of Solid Fuel Burning Masonry Heaters.	2112.2
E 1886—97	Standard Test Method for Performance of Exterior Windows, Curtain Wall, Doors and Storm Shutters Impacted by Missiles and exposed to Cyclic Pressure Differentials	1609.1.4
E 1996—99	Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Storm Shutters Impacted by Windborne Debris in Hurricanes	1609.1.4
F 547—77 (1995)	Standard Terminology of Nails for Use with Wood and Wood-base Materials	Table 2506.2
F 1346—91 (1996)	Standard Performance for Safety Covers and Labeling Requirements for All Covers for Swimming Pools, Spas and Hot Tubs.	3104.9, 3109.4.1.8
F 1667—97	Specification for Driven Fasteners: Nails, Spikes, and Staples	Table 719.1(2), Table 719.1(3), 1507.2.6, 2303.6, Table 2506.2
G 23—96	Standard Practice for Operating Light Exposure Apparatus (Carbon Arc Type) With and Without Water for Exposure of Nonmetallic Materials	1504.5
G 26—96	Standard Practice for Operating Light-Exposure Apparatus (Xenon-arc Type) With and Without Water for Exposure of Nonmetallic Materials	1504.5
G 53—96	Standard Practice for Operating Light- and Water-exposure Apparatus (Fluorescent UV-Condensation Type) for Exposure of Nonmetallic Materials	1504.5

REFERENCED STANDARDS

AWPA

American Wood-Preservers' Association
 P.O. Box 5690
 Grandbury, TX 76049

Standard reference number	Title	Referenced in code section number
AWPA C1—98	All Timber Products-Preservative Treatment by Pressure Processes	1403.6, 1505.6.1, 2303.1.8
AWPA C2—98	Lumber, Timber, Bridge Ties and Mine Ties-Preservative Treatment by Pressure Processes	1403.6, Table 1507.9.5, 1805.4.5, 1805.7.1, 2303.1.8, 2304.11.2, 2304.11.4, 2304.11.7
AWPA C3—97	Piles-Preservative Treatment by Pressure Processes	1403.6, 1805.4.5, 1808.1.2, 2303.1.8
AWPA C4—95	Poles-Preservative Treatment by Pressure Processes	1403.6, 1805.7.1, 1808.1.2, 2303.1.8
AWPA C9—97	Plywood-Preservative Treatment by Pressure Processes	1403.6, 2303.1.8, 2304.11.2, 2304.11.4, 2304.11.7
AWPA C14—90	Wood for Highway Construction, Pressure Treatment	2303.1.8
AWPA C15—98	Wood for Commercial-Residential Construction Preservative Treatment by Pressure Process	1403.6, 2303.1.8
AWPA C16—90	Wood Used on Farms, Pressure Treatment	2303.1.8
AWPA C18—95	Standard for Pressure Treated Material in Marine Construction	1403.6
AWPA C20—93	Structural Lumber-Fire Retardant Treatment by Pressure Processes	2303.2
AWPA C22—96	Lumber and Plywood for Permanent Wood Foundations-Preservative Treatment by Pressure Processes	1403.6, 1805.4.6, 2303.1.8
AWPA C23—94	Poles Used in Building Construction—Preservative Treatment by Pressure Processes	2303.1.8
AWPA C24—96	Sawn Timber Piles Used for Residential Commercial Building	1403.6, 1808.1.2, 2303.1.8
AWPA C27—93	Plywood-Fire-Retardant Treatment by Pressure Process	2303.2
AWPA C28—99	Standard for Preservative Treatment of Structural Glued Laminated Members and Laminations before Glueing of Southern Pine, Coastal Douglas-Fir, Hemfir and Western Hemlock by Pressure Processes	1403.6, 2303.1.8
AWPA M4—95	Standard for the Care of Preservative-Treated Wood Products	1808.1.2, 2303.1.8
AWPA P1/13—95	Standard for Coal Tar Creosote for Land and Fresh Water and Marine (Coastal Water) Use	1403.6, 2303.1.8
AWPA P2—98	Standard for Creosote Solutions	1403.6, 2303.1.8
AWPA P5—95	Standard for Waterborne Preservatives	2303.1.8
AWPA P8—95	Standard for Oil-borne Preservatives	2303.1.8
AWPA P9—92	Standard for Solvents and Formulations for Organic Preservative Systems	2303.1.8

AWS

American Welding Society
 550 N.W. LeJeune Road
 Miami, FL 33126

Standard reference number	Title	Referenced in code section number
DI.4—98	Structural Welding Code—Reinforcing Steel	1903.5.2, 2108.9.2.11- Item 2

BHMA

Builders Hardware Manufacturers' Association
 355 Lexington Avenue, 17th Floor
 New York, NY 10017-6603

Standard reference number	Title	Referenced in code section number
A 156.10—85	Power Operated Pedestrian Doors	1003.3.1.3.2
A 156.19—97	Power Assist and Low Energy Operated Doors	1003.3.1.3.2

CGSB
 Canadian General Standards Board
 222Queens Street
 14th Floor, Suite 1402
 Ottawa, Ontario, Canada KIA 1G6

Standard reference number	Title	Referenced in code section number
37-52M—84	Roofing and Waterproofing Membrane, Sheet Applied, Elastomeric	1504.6, 1507.12.2
37-54M—79	Roofing and Waterproofing Membrane, Sheet Applied, Flexible, Polyvinyl Chloride	1507.13.2
37-56M—80	Membrane, Modified, Bituminous, Prefabricated, and Reinforced for Roofing —with December 1985 Amendment	1507.11.2

CISCA
 Ceiling and Interior Systems Construction Association
 1500 Lincoln Highway, Suite 202
 St. Charles, IL 60174

Standard reference number	Title	Referenced in code section number
02—91	Recommendations for Direct-hung Acoustical Tile and Lay-in panel ceilings	1621.2.5.2.1
3-4—91	Guidelines for Seismic Restraint Direct Hung Suspended Ceiling Assemblies	1621.2.5.2.2

CPSC
 Consumer Product Safety Commission
 4330 East West Highway
 Bethesda, MD 20814-4408

Standard reference number	Title	Referenced in code section number
16 CFR 107—97	Room Fire Test Standard for Garage Doors Using Foam Plastic Insulation	2603.4.1.9
16 CFR 1201—77	Safety Standard for Architectural Glazing	2406.1, 2406.1.2, 2407.1, 2408.2
16 CFR 1209—79	Interim Safety Standard for Cellulose Insulation	718.6
16 CFR 1404—79	Cellulose Insulation	718.6
16 CFR 1500—91	Hazardous Substance and Articles; Administration and Enforcement Regulations	307.2
16 CFR 1500 44—91	Method for Determining Extremely Flammable and Flammable Solids	307.2
16 CFR 1507—91	Fireworks Devices	307.2
16 CFR 1630—70 (DOC FF-1-70)—98	Standard for the Surface Flammability of Carpets and Rugs	804.5.1

CSSB
 Cedar Shake and Shingle Bureau
 P.O. Box 1178
 Sumas, WA 98295-1178

Standard reference number	Title	Referenced in code section number
CSSB-97	Grading Rules	Table 1507.8.4, Table 1507.9.5

DASMA
 Door and Access Systems Manufacturer's
 Association International
 1300 Summer Avenue
 Cleveland, OH 44115-2851

Standard reference number	Title	Referenced in code section number
107—97	Room Fire Test Standard for Garage Doors Using Foam Plastic Insulation	2603.4.1.9

REFERENCED STANDARDS

DOC

U.S. Department of Commerce
National Institute of Standards and Technology
100 Bureau Drive Stop 3460
Gaithersburg, MD 20899

Standard reference number	Title	Referenced in code section number
PS-1—95	Construction and Industrial Plywood	2211.3.1, 2303.1.4, 2304.6.2, Table 2304.7(4), 2306.3.2
PS-2—92	Performance Standard for Wood-based Structural-use Panels	1808.1.1, 2211.3.1, 2303.1.4, 2304.6.2, Table 2304.7(4), Table 2304.7(5), Table 2306.3.1, 2306.3.2
PS 20—99	American Softwood Lumber Standard	1808.1.1, 2302, 2303.1.1

DOL

U.S. Department of Labor
c/o Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20402-9325

Standard reference number	Title	Referenced in code section number
29 CFR 1910.1000—74	Air Contaminants	902.1

DOTn

U.S. Department of Transportation
c/o Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20402-9325

Standard reference number	Title	Referenced in code section number
49 CFR (173-178)—88 UN 0335, UN 0336	Specification of Transportation of Explosive and Other Dangerous Articles, Shipping Containers.	307.2
49 CFR(172)—88	Hazardous Materials Tables, Special Provisions, Hazardous Materials Communications, Emergency Response Information and Training Requirements	307.2

EIA

Electronics Industries Association
2500 Wilson Boulevard
Arlington, VA 22201-3834

Standard reference number	Title	Referenced in code section number
EIA/TIA 222-E—91	Structural Standards for Steel Antenna Towers and Antenna Supporting Structures	3108.4

EWA

APA - Engineered Wood Association
P.O. Box 11700
Tacoma, WA 98411-0700

Standard reference number	Title	Referenced in code section number
APA PDS—97	Plywood Design Specification	2306.1, Table 2306.3.1, 2306.3.2, 2306.3.4, 2306.3.5, 2306.4.1
	Supplement 1-Design and Fabrication of Plywood Curved Panels	2306.1
	Supplement 2-Design and Fabrication of Glued Plywood-lumber beams.	2306.1
	Supplement 3-Design and Fabrication of Plywood Stressed-skin Panels	2306.1
	Supplement 4-Design and Fabrication of Plywood Sandwich Panels.	2306.1
	Supplement 5-Design and Fabrication of All-plywood Beams	2306.1
EWS R540—96	Builders Tips: Proper Storage and Handling of Glulam Beams	2306.1
EWS S475—99	Glued Laminated Beam Design Tables	2306.1

EWA—continued

EWS S560—99	Field Notching and Drilling of Glued Laminated Timber Beams	2306.1
EWS T300—99	Glulam Connection Details	2306.1
EWS X440—98	Product and Application Guide	2306.1
EWS X445—97	Glulam in Residential Construction — Southern Edition	2306.1
EWS X450—97	Glulam in Residential Construction — Western Edition	2306.1

FEMA

Federal Emergency Management Agency
 Federal Center Plaza
 500 C Street S.W.
 Washington, DC 20472

Standard reference number	Title	Referenced in code section number
FEMA 302	NEHRP Recommended Provisions for Seismic Regulations for New Buildings and Other Structures	Figure 1615(7), Figure 1615(8), Figure 1615(9), Figure 1615(10)

FM

Factory Mutual
 Standards Laboratories Department
 1151 Boston-Providence Turnpike
 Norwood, MA 02062

Standard reference number	Title	Referenced in code section number
4450—90	Approval Standard for Class 1 Insulated Steel Deck Roofs—with Supplements thru 7/92	1504.3.1, 1508.1, 2603.3, 2603.4.1.5
4470—86	Approval Standard for Class 1 Roof Coverings—with Supplements thru August 1992.	1504.3.1, 1504.6
4880—94	Approval Standard for Class 1:a) Insulated Wall or Wall and Roof/Ceiling Panels, b) Plastic Interior Finish Materials, c) Plastic Exterior Building Panels, d) Wall/Ceiling Coating Systems and e) Interior or Exterior Finish Systems	2603.4, 2603.7

GA

Gypsum Association
 810 First Street N.E. #510
 Washington, DC 20002-4268

Standard reference number	Title	Referenced in code section number
GA 216—96	Application and Finishing of Gypsum Board	Table 2508.1, 2509.2
GA 600—97	Fire-resistance Design Manual, 15th Edition, April, 1997.	Table 719.1(1), Table 719.1(2), Table 719.1(3)

HPVA

Hardwood Plywood Veneer Association
 1825 Michael Faraday Drive
 Reston, VA 20190-5350

Standard reference number	Title	Referenced in code section number
HPVA HP-1—94	The American National Standard for Hardwood and Decorative Plywood.	2303.3, 2304.6.2

REFERENCED STANDARDS

ICC

International Code Council
5203 Leesburg Pike, Suite 600
Falls Church, VA 22041

Standard reference number	Title	Referenced in code section number
ICC A 117.1—98	Accessible and Usable Buildings and Facilities	406.2.2, 907.9.1.3, 1003.2.13.5.5, 1003.3.4, 1003.3.4.5.5, 1003.3.4.8, Comm 62.1100-62.1110, 1405.10.4, 1607.7, 3001.3, 3408.5, 3408.7.1, 3408.7.2
EC—2000	ICC Electrical Code™	904.3.1, 907.5, 909.11, 909.12.1, 909.16.3, 1003.2.10.5, 1003.2.11.2, 1204.4.1, 1405.10.4, 2701.1, 2702.1
IECC—2000	International Energy Conservation Code®	1202.3.2, 1301.1.1, 1403.2
IFC—2000	International Fire Code®	102.6, 307.2, 307.9, Table 307.7(1), Table 307.7(2), 403.8, 404.2, 406.5.1, 410.3.7, 411.1, 412.4.1, 413.1, 414.1.1, 414.1.2, 414.2.4, Table 414.2.4, 414.3, 414.5, 414.5.1, Table 414.5.1, 414.5.2, 414.5.4, 414.5.5, 414.6, 415.1, 415.3, Table 415.3.1, 415.7, 415.7.1, 415.7.1.4, 415.7.2, 415.7.2.3, 415.7.2.5, 415.7.2.7, 415.7.2.8, 415.7.2.9, 415.7.3, 415.7.3.3.3, 415.7.3.5, 415.7.4, 415.8, 415.9.1, 415.9.2.7, 415.9.5.1, 415.9.7.2, 704.8.2, 901.2, 901.3, 901.5, 903.2.6.1, 903.2.13, Table 903.2.15, 903.5, 904.2.1, 905.1, 906.1, 907.2.5, 907.2.12.2, 907.2.14, 907.2.16, 907.19, 909.20, 910.2.3, Table 910.3, 1001.3, 1202.4.2, 1202.5, 2702.2.8, 2702.2.10, 2702.2.11, 2702.3, 2702.12, 3102.1, 3103.1
IFGC—2000	International Fuel Gas Code®	201.3, 307.9, 415.7.3, 2113.11.2, 2801.1
IMC—2000	International Mechanical Code®	201.3, 307.9, 406.4.2, 406.6.3, 409.3, 412.4.6, 414.1.2, 414.3, 415.7.1.4, 415.7.2, 415.7.2.8, 415.7.3, 415.7.4, 415.9.11.1, 416.3, 603.1, 707.2, 715.2.2, 715.5.4, 715.6.1, 715.6.2, 715.6.3, 716.5, 718.1, 903.2.14.1, 904.2.1, 908.6, 909.1, 909.10.2, 1004.3.2.4, 1007.3, 1202.1, 1202.2.1, 1202.4.2, 1202.4.2.1, 1202.5, 1208.3, 2304.5, 2801.1, 3004.3.1
IPC—2000	International Plumbing Code®	102.6, 201.3, 415.7.4, 716.5, 903.3.5, 1205.3.3, 1503.4, 1611.1, 1806.4.3, 2901.1
IPMC—2000	International Property Maintenance Code®	102.6
IPSDC—2000	International Private Sewage Disposal Code®	2901.1
IRC—2000	International Residential Code®	2113.15
SBCCI SSTD 7—99	Standard for Soil Expansion Index Test	1802.3.2
SBCCSSTD 10—99	Standard for Hurricane Resistant Residential Construction	1609.1.1, 2308.2.1
SBCCSSTD 11—97	Test Standard for Determining Wind Resistance of Concrete or Clay Roof Tiles	1715.2.1, 1715.2.2
SBCCI SSTD 12—97	Standard for Determining Impact Resistance from Windborne Debris	1609.1.1
UBC Standard 18—2	Expansion Index Test	1802.3.2
UBC 26-4—97	Method of Test for the Evaluation of Flammability Characteristics of Exterior, Nonload-Bearing Wall Panel Assemblies Using Foam Plastic Insulation	2603.5.5

NAAMM

National Association of Architectural
Metal Manufacturers
8 South Michigan Ave
Chicago, IL 60603

Standard reference number	Title	Referenced in code section number
NAAMM 1001—90	Guide Specifications for Design of Metal Flag Poles	1609.1.1

NBS

National Bureau of Standards
U.S. Department of Commerce
Superintendent of Documents
Government Printing Office
Washington, DC 20401

Standard reference number	Title	Referenced in code section number
BMS 71—41	Fire Tests of Wood and Metal-framed Partitions	720.7
TRBM-44—46	Fire-resistance and Sound-insulation Ratings for Walls, Partitions and Floors	720.7

NCMA

National Concrete Masonry Association
2302 Horse Pen Road
Herndon, VA 22071-3499

Standard reference number	Title	Referenced in code section number
NCMA—TBK 5-8 (1978)	Design Details for Concrete Masonry Fire Walls	Table 719.1(2)

NEMA

National Electrical Manufacturers Association
2101 L Street, N.W., Suite 300
Washington, DC 20037

Standard reference number	Title	Referenced in code section number
NEMA—250—97	Enclosures for Electrical Equipment (1000 volts, Max)	1621.3.13.1
NEMA ICS 6—93	Industrial Control and System Enclosures	1621.3.13.1

NFPA

National Fire Protection Association
1 Batterymarch Park
Quincy, MA 02269-9101

Standard reference number	Title	Referenced in code section number
NFPA 11—98	Low Expansion Foam	904.7
NFPA 11A—99	Medium- and High-expansion Foam Systems	904.7
NFPA 12—98	Carbon Dioxide Extinguishing Systems	904.8, 904.11
NFPA 12A—97	Halon 1301 Fire Extinguishing Systems	904.9
NFPA 13—99	Installation of Sprinkler Systems [Comm 62.3500 (1)]	704.12, 707.2, 903.3.1.1, 903.3.2, 903.3.5.1.1, 904.11, 907.8, 1621.3.10.1, 3104.5, 3104.9
NFPA 13D—96	Installation of Sprinkler Systems in One- and Two-family Dwellings and Manufactured Homes	903.1.2, 903.3.1.3, 903.3.5.1.1
NFPA 13R—99	Installation of Sprinkler Systems in Residential Occupancies Up to and Including Four Stories in Height	903.1.2, 903.3.1.2, 903.3.5.1.1, 903.3.5.1.2, 903.4
NFPA 14—96	Standpipe and Hose System	905.2, 905.3.2, 905.3.5, 905.4.2, 905.8
NFPA 16—99	Installation of Deluge Foam-water Sprinkler and Foam-water Spray Systems	904.7, 904.11
NFPA 17—98	Dry Chemical Extinguishing Systems	904.6, 904.11
NFPA 17A—98	Wet Chemical Extinguishing Systems	904.5, 904.11
NFPA 30—00	Flammable and Combustible Liquids Code	307.9, 415.3
NFPA 30B—98	Manufacture and Storage of Aerosol Products	307.9
NFPA 32—96	Dry Cleaning Plants	415.7.4
NFPA 33—00	Spray Application Using Flammable or Combustible Materials	307.9, 416.1
NFPA 34—00	Dipping and Coating Processes Using Flammable or Combustible Liquids	307.9, 416.1
NFPA 40—97	Storage and Handling of Cellulose Nitrate Motion Picture Film	409.1
NFPA 61—95	Prevention of Fires and Dust Explosions in Agricultural Food	415.7.1
NFPA 65—93	Processing & Finishing of Aluminum	415.7.1
NFPA 72—99	National Fire Alarm Code [Comm 62.3500 (1)]	505.4, 901.6, 903.4.1, 904.3.5, 907.2, 907.2.1, 907.2.1.1, 907.2.10, 907.2.10.4, 907.2.11.2, 907.2.11.3, 907.2.12.2.3, 907.2.12.3, 907.4, 907.5, 907.9.2, 907.10, 907.14, 907.16, 907.17, 909.12, 909.12.3, 911.1, 3006.5
NFPA 80—99	Fire Doors and Fire Windows	302.1.1.1, 714.2, 714.2.6.1, 714.2.7.2, 714.3, 714.3.3, 1003.3.1.3.3
NFPA 96—98	Ventilation Control and Fire Protection of Commercial Cooking Operations	904.11
NFPA 101—97	Code for Safety to Life from Fire in Buildings and Structures	1008.5.2
NFPA 102—95	Assembly Seating, Tents and Membrane Structures	Table 1607.1
NFPA 110—99	Emergency and Standby Power Systems	2702.1
NFPA 111—96	Stored Electrical Energy Emergency and Standby Power Systems	2702.1
NFPA 120—99	Coal Preparation Plants	415.7.1
NFPA 204—98	Guide for Smoke and Heat Venting	3104.11
NFPA 231C—98	Rack Storage of Materials	507.2
NFPA 252—95	Standard Methods of Fire Tests of Door Assemblies	714.2.1, 714.2.2, 714.2.3, 714.2.4.1

REFERENCED STANDARDS

NFPA—continued

NFPA 253—95	Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Energy Heat Source	804.2, 804.3
NFPA 257—96	Standard on Fire Test for Window and Glass Block Assemblies	714.2.3, 714.3, 714.3.1
NFPA 259—98	Test Method for Potential Heat of Building Materials.	2603.4.1.10, 2603.5.3
NFPA 265—98	Standard Methods of Fire Tests for Evaluating Room Fire Growth Contribution of Textile Wall Coverings	803.5.1
NFPA 268—96	Standard Test Method for Determining Ignitibility of Exterior Wall Assemblies Using a Radiant Heat Energy Source	1406.2.1, 1406.2.1.1, 1406.2.1.2, 2603.5.7
NFPA 285—98	Standard Method of Test for the Evaluation of Flammability Characteristics of Exterior Nonloadbearing Wall Assemblies Containing Combustible Components Using the International Scale, Multistory Test Apparatus.	2603.5.5
NFPA 409—95	Standard on Aircraft	412.2.6, 412.4.5
NFPA 418—95	Standard for Heliports.	412.5.6
NFPA 651—98	Manufacture of Aluminum Powder	415.7.1
NFPA 654—97	Prevention of Fire & Dust Explosions in the Chemical, Dye, Pharmaceutical, Plastics, and Industries.	415.7.1
NFPA 655—93	Prevention of Sulfur Fires and Explosions	415.7.1
NFPA 664—98	Prevention of Fires Explosions in Wood Processing and Woodworking Facilities	415.7.1
NFPA 701—96	Methods of Fire Test for Flame-resistant Textiles and Films	802.1, 805.1, 805.2, 3102.3.1, 3105.3
NFPA 704—96	Standard System for the Identification of the Hazards of Materials for Emergency Response	414.7.2, 415.2
NFPA 750—96	Standard on Water Mist Fire Protection Systems [Comm 62.3500 (2)]	Comm 62.0904(1)
NFPA 1124—98	Manufacture, Transportation, and Storage of Fireworks and Pyrotechric Articles	415.3.1
NFPA 1963—98	Fire Hose Connections	903.3.6, 905.1
NFPA 2001—96	Standard on Clean Agent Fire Extinguishing Systems	904.10
NFPA 8503—97	Pulverized Fuel Systems	415.7.1

PCI

Precast Prestressed Concrete Institute
175 W. Jackson Boulevard, Suite 1859
Chicago, IL 60604-9773

Standard reference number	Title	Referenced in code section number
MNL124—1977	Design for Fire Resistance of Precast Prestressed Concrete	720.2.3.1

PTI

Post-Tensioning Institute
1717 W. Northern Avenue, Suite 114
Phoenix, AZ 85021

Standard reference number	Title	Referenced in code section number
PTI—1996	Design and Construction of Post-tensioned Slabs-on-ground, 2nd Edition	1805.8.2

RMA

Rubber Manufacturers Association
1400 K. Street, N.W. #900
Washington, DC 20005

Standard reference number	Title	Referenced in code section number
RP-1—90	Minimum Requirements for Non-reinforced Black EPDM Rubber Sheets	1507.12.2
RP-2—90	Minimum Requirements for Fabric-reinforced Black EPDM Rubber Sheets	1507.12.2
RP-3—85	Minimum Requirements for Fabric-reinforced Black Polychloroprene Rubber Sheets.	1507.12.2
RMA/SPRI RP-4—1988	Wind Design Guide for Ballasted Single-ply Roofing Systems	1504.4

RMI

Rack Manufacturers Institute
8720 Red Oak Boulevard, Suite 201
Charlotte, NC 28217

Standard reference number	Title	Referenced in code section number
RMI (1997)	Design, Testing and Utilization of Industrial Steel Storage Racks	2210, 1622.3.4

SAE

Society of Automotive Engineers
400 Common Wealth Drive
Warrendale, PA 15096

Standard reference number	Title	Referenced in code section number
SAE J78—79	Steel Self Drilling Tapping Screws	2211.2, 2211.3.3

SJI

Steel Joist Institute
3127 10th Avenue, North
Myrtle Beach, SC 29577-6760

Standard reference number	Title	Referenced in code section number
SJI—1994	Standard Specification, Load Tables and Weight Tables for Steel Joists and Joist Girders	1604.3.3, 2206
SJI—1994	OpenWeb Steel Joists, K Series	2206
SJI—1994	Longspan Steel Joists, LH Series and Deep Longspan Steel Joists, DLH Series	2206

SMACNA

Sheet Metal & Air Conditioning Contractor's National Assn., Inc.
4201 Lafayette Center Drive
Chantilly, VA 20151

Standard reference number	Title	Referenced in code section number
SMACNA-HVAC—1995	HVAC Duct Construction Standards, Metal and Flexible	1621.3.9
SMACNA-Seismic—1998	Seismic Restraint Manual Guidelines for Mechanical Systems, 1991, including Appendix B, 1998	1621.3.9

TIA

Telecommunications Industry Association
2500 Wilson Boulevard
Arlington, VA 22201-3834

Standard reference number	Title	Referenced in code section number
EIA-TIA 222-E—91	Structural Standards for Steel Antenna Towers and Antenna Supporting Structures	3108.4

TMS

The Masonry Society
3970 Broadway, Unit 201-D
Boulder, CO 80304-1135

Standard reference number	Title	Referenced in code section number
0216—97	Standard Method for Determining Fire Resistance of Concrete and Masonry Construction Assemblies	Table 719.1(2), 720.1

REFERENCED STANDARDS

TMS—continued

402—99	Building Code Requirements for Masonry Structures	1405.5, 1405.5.3, 1405.5.3.1, 1405.9, 1604.3.4, 1805.5.2, 1811.7, 2101.2.3, 2101.2.4, 2106.1.1, 2106.1.1.1, 2106.1.1.2, 2106.1.1.3, 2106.1.1.4, 2106.1.1.5, 2106.1.2, 2106.1.2.1, 2106.1.2.2, 2106.1.2.3, 2106.2, 2106.4.2.1, 2106.4.2.2, 2106.5.1, 2107.1, 2107.2, 2107.2.1, 2107.2.2, 2107.2.3, 2107.2.4, 2107.2.5, 2108.6.5, 2109.1, 2109.2.3.1
602—99	Specification for Masonry Structures	1405.5.2, 1405.9.1, 2104.1, 2104.1.1, 2108.7.2

TPI

Truss Plate Institute
583 D'Onofrio Drive, Suite 200
Madison, WI 53719

Standard reference number	Title	Referenced in code section number
TPI 1—1995	National Design Standards for Metal-Plate-Connected Wood Truss Construction	2303.4, 2306.1

UL

Underwriters Laboratories
333 Pfingsten Road
Northbrook, IL 60062-2096

Standard reference number	Title	Referenced in code section number
UL 10A—98	Tin Clad Fire Doors	714.2
UL 10B—97	Fire Tests of Door Assemblies	714.2.2
UL 10C—98	Posture Pressure Fire Tests of Door Assemblies	714.2.1, 714.2.3
UL 14B—96	Sliding Hardware for Standard Horizontally Mounted Tin Clad Fire Doors	714.2
UL 14C—96	Swinging Hardware for Standard Tin Clad Fire Doors Mounted Single and in Pairs	714.2
UL 103—98	Chimneys, Factory-Built, 1 Residential Type and Building Heating Appliance —with Revisions through March 1999	716.2.5
UL 127—99	Factory-built Fireplaces	716.2.5
UL 268—96	Smoke Detectors for Fire Protective Signaling Systems—with Revisions Through January 1999	407.6, 907.2.6.1
UL 300—96	Fire Testing of Fire Extinguishing Systems for Protection of Restaurant Cooking Areas —with Revisions through December 1998	904.11
UL 555—95	Fire Dampers	715.3
UL 555C—96	Ceiling Dampers	715.3, 715.6.2
UL 555S—96	Leakage Rated Dampers for Use in Smoke Control Systems	715.3, 715.3.1.1
UL 580—94	Test for Uplift Resistance of Roof Assemblies—with Revisions through April 1995	1504.3.1, 1504.3.2
UL 641—95	Type L Low-Temperature Venting Systems	2113.11.1.4
UL 790—98	Tests for Fire Resistance of Roof Covering Materials	1505.1, 1505.6, 2603.6, 2610.2, 2610.3
UL 864—96	Control Units for Fire Protective Signaling Systems	909.12
UL 1040—98	Fire Test of Insulated Wall Construction	1407.9.3, 2603.4, 2603.7
UL 1256—98	Fire Test of Roof Deck Construction	1508.1, 2603.3, 2603.4.1.5
UL 1715—97	Fire Test of Interior Finish Material	1407.9.2, 1407.9.3, 2603.4, 2603.7
UL 1777—98	Chimney Liners—with Revisions through July 1998	2113.11.1, 2113.19
UL 1784—95	Air Leakage Tests of Door Assemblies	714.2.3, 714.2.5.1
UL 1897—98	Uplift Tests for Roof Covering Systems	1504.3.1
UL 1975—90	Fire Test of Foamed Plastic Used for Decorative Purposes	402.14.5
UL 2079—98	Tests for Fire Resistance of Building Joint Systems	702.1, 712.3

ULC

Underwriters Laboratories of Canada
7 Crouse Road
Scarborough, Ontario, Canada M1R3A9

Standard reference number	Title	Referenced in code section number
CAN/ULC/S102.2—88	Surface Burning Characteristics of Building Materials and Assemblies	718.4

ULC

United States Code
 c/o Superintendent of Documents
 U.S. Government Printing Office
 Washington, DC 20402-9325

Standard reference number	Title	Referenced in code section number
USC Title 18: Chapter 40—70	Importation, Manufacture, Distribution and Storage of Explosive Materials	307.2

WRI

Wire Reinforcement Institute, Inc.
 203 Loudon Street, S.W.
 2nd Floor, Suite 203C
 Leesburg, VA 22075

Standard reference number	Title	Referenced in code section number
WRI/CRSI—81	Design of Slab-on-ground Foundations	1805.8.2

APPENDICES A & B

Deleted

|

APPENDIX C

GROUP U - AGRICULTURAL BUILDINGS

SECTION C101 GENERAL

C101.1 [Comm 62.3600 (2)] Scope. The provisions of IBC Appendix C apply to Group U agricultural buildings, as described in IBC Section C101.1, that are not exempt from this code as outlined in ss. Comm 61.01 and Comm 61.02 (2) and (3).

1. Livestock shelters or buildings, including shade structures and milking barns.
2. Poultry buildings or shelters.
3. Barns.
4. Storage of equipment and machinery used exclusively in agriculture.
5. Horticultural structures, including detached production greenhouses and crop protection shelters.
6. Sheds.
7. Grain silos.
8. Stables.

SECTION C102 ALLOWABLE HEIGHT AND AREA

C102.1 General. Buildings classified as Group U Agricultural Building shall not exceed the area or height limits specified in Table C102.1.

C102.2 One-story unlimited area. The area of a one-story Group U agricultural building shall not be limited if the building is surrounded and adjoined by public ways or yards not less than 60 feet in width.

C102.3 Two-story unlimited area. The area of a two-story Group U agricultural building shall not be limited if the building is surrounded and adjoined by public ways or yards not less than 60 feet (18 288 mm) in width and is provided with an approved automatic sprinkler system throughout in accordance with Section 903.3.1.1.

SECTION C103 MIXED USES

C103.1 Mixed uses. Mixed uses shall be protected in accordance with Chapter 3.

SECTION C104 EXITS

C104.1 Exit facilities. Exits shall be provided in accordance with Chapters 10 and 11.

Exceptions:

1. The maximum travel distance from any point in the building to an approved exit shall not exceed 300 feet (91 440 mm).
2. One exit is required for each 15,000 square feet (1393.5 m²) of area or fraction thereof.

**TABLE C102.1—BASIC ALLOWABLE AREA FOR A GROUP U,
ONE STORY IN HEIGHT AND MAXIMUM HEIGHT OF SUCH OCCUPANCY**

I		II		III and IV		V	
A	B	A	B	III A and IV	III B	A	B
ALLOWABLE AREA (square feet)^a							
Unlimited	60,000	27,100	18,000	27,100	18,000	21,100	12,000
MAXIMUM HEIGHT IN STORIES							
Unlimited	12	4	2	4	2	3	2
MAXIMUM HEIGHT IN FEET							
Unlimited	160	65	55	65	55	50	40

For SI: 1 square foot = 0.0929 m².

a. See Section C102 for unlimited area under certain conditions.

APPENDICES D - J

Deleted

|

INDEX

A

ACCESS OPENINGS

- Attic 1208.2
- Crawl space 1208.1
- Doors 710.3.1.1
- Fire damper 715.4
- Fire department 402.15
- Mechanical appliances 1208.3
- Refuse/laundry chutes 707.13.3

ACCESSIBILITY Chapter 11

- Customer service facility 62.1109(12)
- Detectable warnings 62.1109(9)
- Dining areas 62.1108(2)(e), 3408.7.5
- Dressing, fitting and locker rooms 3408.7.10
- Dwelling units 62.1107
- Egress 1003.2.13
- Elevators 62.1109(6), Chapter 30, 3408.7.1
- Entrances 62.1105, 3408.8.3
- Existing buildings 62.1103(2)(b), 3408
- Historic buildings 3408.8
- Hotel guest rooms 62.1107(6), 3408.7.8
- Lifts 62.1109(7)
- Parking and passenger loading facilities 62.1106
- Performance areas 3408.7.6
- Ramps 1003.3.4.12, Chapter 11
3408.7.4, 3408.8.5
- Route 62.1104, 62.1107(5) and (6)
- Sales and service counters 3408.7.13
- Signage 62.1110
- Sleeping accommodations 62.1107(5) and (6)
- Toilet and bathing facilities 62.1109(2),
3408.7.9, 3408.8.4
- Treads and risers 1003.3.3.3
- Wheelchair spaces 62.1108(2)

ACCESSIBLE MEANS OF EGRESS 1003.2.13

ADMINISTRATION Chapter 1

ADOBE CONSTRUCTION 2102.1, 2109.8

AFFIDAVITS 1807.2.20

AGRICULTURAL BUILDINGS (GROUP U) 312.1, 62.1103(2)(e)

AIR CONDITIONING (see MECHANICAL) 1606.2, 2801.1, 3006.2

AIR INTAKES (YARDS OR COURTS) 1205.3.2

AIRCRAFT HANGARS 412.2

- Aircraft paint hangars 412.4, 507.6
- Basements 412.2.2
- Construction exterior walls 412.2.1

- Heliports and helistops 412.5
- Residential 412.3
- Unlimited height 504.1

AIRCRAFT-RELATED OCCUPANCIES 412, 907.2.22

- Airport traffic control towers 412.1
- Egress 412.1.3
- Fire detection systems, automatic 412.1.4,
907.2.22
- Standby power 412.1.5, 2702.2.17
- Type of construction 412.1.2

AISLE

- Assembly seating 62.1108(2), 62.1109(10), 1008.7
- Check-out 62.1109(12)(b)
- Converging 1008.7.3
- Grandstands, reviewing stands and bleachers 1008.5, 62.1108(2), 62.1109(10)
- Obstructions 1008.7.6
- Stairs, handrails 1008.11
- Tents 3103.4
- Width 1008.7.2, 1008.7.4, 1008.8

ALARM SYSTEMS, EMERGENCY 908

ALARMS, DOOR 1003.3.1.8.2(5)

ALARMS, FIRE (see FIRE ALARM)

ALARMS, VISIBLE 907.9.1

ALARMS, VOICE

- High-rise buildings 907.2.12.2

ALTERATIONS

- Accessibility 3408

ALTERNATING TREAD STAIRWAYS 1003.3.3.10

- Construction 1003.3.3.10.2
- Galleries, catwalks, and gridirons 1007.5.1

ALUMINUM 1404.5.1, 1604.3.5, Chapter 20

AMUSEMENT BUILDING, SPECIAL 411

- Emergency voice/alarm communications system 411.6
- Exit marking 411.7
- Fire detection, automatic 411.3
- Interior finish 411.8
- Smoke detection system 907.2.11
- Sprinklers, automatic 411.4

AMUSEMENT PARK BUILDING 303

ANCHOR STORE

(see COVERED MALL BUILDINGS) 402.2

- Construction type 402.6
- Means of egress 402.4.3.1
- Occupant load 402.4.1.3

INDEX

ANCHORAGE 1604.8
 Concrete, seismic 1604.8.2
 Masonry 1604.8.2
 Wind load 1609.1.3

APARTMENT HOUSES 310.1

ARCHITECT (see REGISTERED DESIGN PROFESSIONAL)

ARCHITECTURAL TRIM 1406.2.2

AREA, BUILDING Chapter 5
 Basements 503.1.1
 Enclosed parking garage 508.2, 508.3
 Limitations 503, 505
 Membrane structures 3102
 Mezzanines 505.2
 Mixed construction types 3102.6
 Mixed occupancy 302.3
 Modifications 506
 Open parking garage 508.3, 508.8
 Residential aircraft hangars 412.3.6, 504.1
 Unlimited 503.1.4, 506.2.1, 507

AREA BUILDINGS, UNLIMITED 507

AREA OF REFUGE 1003.2.13.5

ASSEMBLY OCCUPANCY (GROUP A) 303, 1008
 Access, single 1008.8.2
 Accessory Table 302.3.3(d)
 Aisles 1008.7
 Bleachers (see BLEACHERS)
 Egress, special provisions 1008.1
 Fire alarms 907.2.1
 Grandstands (see GRANDSTANDS)
 Interior finishes Table 803.4
 Motion picture theatres 507.8
 Occupancy separation Table 302.2.2(f, d, e)
 Panic hardware 1003.3.1
 Reviewing stands (see REVIEWING STANDS)
 Seating, smoke-protected 1008.8.1, 1008.5.2
 Sprinklers 507.2, 903.2.1
 Standby power systems 2702.2.1
 Standpipes 905.3.3

ATRIUM 404
 Automatic sprinkler protection 404.3
 Automatic fire detection 404.6
 Enclosure 404.5
 Interior finish 404.8
 Smoke control 404.4, 707.2, 909, 907.2.13
 Standby power 404.7
 Use 404.2

ATTACHED GARAGE 302.1.1, 406.2.9

ATTIC
 Access 1208.2

Combustible storage 413.2
 Draftstopping 716.4
 Insulation 718.3.1
 Live load Table 1607.1
 Unusable space fire protection 710.3.2
 Ventilation 1202.2

AUDITORIUM

Accessibility 62.1108(2), 62.1109(10)
 Foyers and lobbies 1008.3
 Interior balconies and galleries 1008.4
 Motion picture projection rooms 409
 Stages and platforms 410

AUTOMOBILE PARKING GARAGE (see GARAGE, AUTOMOBILE PARKING) 406

AUTOMOBILE, REPAIR GARAGE

(see GARAGE, REPAIR) 406.6
 Gas-detection system 406.6.6, 908.5
 Floor surface 406.6.4
 Ventilation 406.6.3

AUTOMOTIVE SERVICE STATION 406.5

AWNINGS

Design and construction 3105.2
 Live load 1607.11.2.4
 Plastic 2606.10
 Definition 202.1

B

BALCONIES 1004.3.4

Accessibility 62.1108(2)
 Construction requirements 1406.3
 Egress doors, residential
 Egress, means of 704.2, 1003.3, 1006.2.2, 1008.4
 Emergency escape 1009.1
 Exterior 1004.3.4
 Guards 1003.2.12, 1008.1.2
 Interior 1008.4
 Live load Table 1607.1
 Projection, combustible 1406.3
 Seat stability 1008.10
 Seismic 2308.12.7
 Travel distance 1004.2.4.2

BARBECUES 2801

BASEMENT (see UNDERGROUND BUILDINGS)

Aircraft hangars 412.2.2
 Area modification 503.1.1, 506.1
 Considered a story 502.1
 Emergency escape 1009.1
 Height modifications for 508.2, 508.3, 508.6
 Prohibited 415.4, 415.5, 415.7.3.5, 415.9.5.2.2, 418.1

Sprinklers 903.2.12.1
 Waterproofing and dampproofing 1806

BASEMENT WALLS
 Concrete Table 1904.2.2(2),
 1909.6.1, 1910.4.4.1
 Loads 1805.5
 Waterproofing 1806.1.1

BAY AND ORIEL WINDOWS 1406.4

BLEACHERS
 Accessibility 62.1108(2), 62.1109(10)
 Egress 1008.5
 Footboards 1008.13

BLOCK (see CONCRETE BLOCK, GLASS BLOCK)

BOILER
 Exits 1007.1
 Fire detection 907.2

BOLTS
 Anchors 1912, 1913, 2103.11.5, 2108

BONDING, MASONRY 2103.8, 2109.6, 2109.7.2.1

BRICK (see MASONRY)
 Calculated fire resistance 720.4
 Foundations 1805.5
 Veneer 1405.5, 1405.9

BUILDING
 Access, fire department 402.13, 402.15,
 415.9.5.2.2, 909.21.2
 Area (see AREA, BUILDING) Chapter 5
 Demolition 3303
 Existing Chapter 34
 Height (see HEIGHT, BUILDING) Chapter 5
 Occupancy classification Chapter 3

BUILT-UP ROOFS 1507.10

BUSINESS OCCUPANCY (GROUP B) 304
 Area modifications Table 503, 506
 Corridors (see CORRIDORS) 1004.3.6
 Educational above 12th grade 304.1
 Elevator lobby 1004.3.3.6(2)
 Fire alarm 907.2.2
 Parking under 508.2, 508.8
 Unlimited height 508.4
 Single exit Table 1005.2.2
 Special provisions 508

C

CABLES, STEEL STRUCTURAL 2207

CALCULATED FIRE RESISTANCE
 (see FIRE RESISTANCE, CALCULATED)

CANOPIES 3105
 Motor vehicle service stations 406.5.2
 Live load, uniform 1607.11.2.4
 Materials 3105.3

CARPET
 Floor covering 804.2
 Walls and ceilings 803.5.2

CEILING
 Height 409.2, 909.20.4.3,
 1204.2.2, 1207.2
 Interior finish 803
 Penetration of fire resistant assemblies 707,
 711.4, 715.2, 715.6
 Suspended acoustical 803.8.1.1

CELLULOSE NITRATE FILM HANDLING 1007.4

CERAMIC TILE
 Material requirements 2103.4
 Mortar 2103.9

CHILD CARE 305.2, 308.3.1, 308.5.2, 407.1

CHIMNEYS 2111
 Factory-built 716.2.5, 2801

CHURCHES
 Classification 303
 Egress 1008
 Fire alarm 907.2.1
 Interior finishes Table 803.4
 Locks and latches 1003.3.1.8
 Stair enclosure 1005.3.2, 1008.4.1

CIRCULAR STAIRS 1003.3.3.7

CLAY ROOF TILE 1507.3

COAL POCKETS 415.7.1.6

COLD STORAGE, INSULATION 2603.3, 2603.5

COMBUSTIBLE DUSTS 415.7.1

COMBUSTIBLE LIQUIDS 415.7.2

COMBUSTIBLE MATERIAL
 High-pile stock or rack storage 413.1.910.2.3
 In concealed spaces 413.2, 716.5
 In Type I and Type II 603, 804.4
 On exterior side of exterior wall 1406

COMBUSTIBLE PROJECTIONS 704.2, 1406.3

COMBUSTIBLE STORAGE 413, 910.2.3

COMMON PATH OF EGRESS TRAVEL 1004.2.5

COMPARTMENTATION
 Underground buildings 405.4

COMPRESSED GAS 307.2, 415.9.7.2.2, 903.3.2

CONCEALED SPACES 413.2, 716

CONCRETE Chapter 19
 Anchorage 1604.8.2, 1913
 Calculated fire resistance 720.2
 Conduits embedded in 1906.3
 Construction documents 1901.4
 Construction joints 1906
 Curing 1905.11
 Durability 1904
 Exposure conditions 1904

Footings 1805.4
 Formwork 1906
 Foundation walls 1805.5
 Mixing 1905
 Pipe columns, concrete-filled 1916
 Pipes embedded in 1906
 Placing 1905
 Plain, structural 1909
 Proportioning 1905.2
 Quality 1905
 Reinforced gypsum concrete 1915
 Reinforcement 1907
 Roof tile 1508.3
 Seismic provisions 1910
 Shotcrete 1914
 Slab, minimum 1911
 Specifications 1903
 Storage of materials 1903.7
 Strength testing 1905.6
 Wood support 2304.12

CONCRETE MASONRY
 Calculated fire resistance 720.3
 Construction 2104
 Design 2101.2
 Surface bonding 2109.2.3
 Testing 2105.2.2.1.2
 Wood support 2104.1.6, 2304.12

CONCRETE ROOF TILE 1507.3
 Wind resistance 1609.7.3

CONDUIT, PENETRATION PROTECTION 711.3
 711.4, 1005.3.4.1

CONFLICTS IN CODE 102.1

CONSTRUCTION DOCUMENTS 1603
 Fire alarm and detection systems 907.1.1
 Fire resistant joint systems 712
 Floor live load 1603.1.1
 Live loads posted 1603.3
 Masonry 2101.3
 Penetrations 711
 Roof assemblies 1503
 Roof live load 1603.1.2
 Roof snow load 1603.1.3
 Seismic 1603.1.5
 Soil classification and design load bearing capacity 1802.6
 Special loads 1603.1.6
 Wind load 1603.1.4

CONSTRUCTION JOINTS
 Concrete 1906.4
 Shotcrete 1914.7

CONSTRUCTION TYPES Chapter 6
 Automobile parking garage Table 406.3.1, 508.2 - 508.8
 Classification 602
 Combustible material in Type I and Type II construction 603
 Covered mall buildings 402.6
 Fire resistance Table 601, Table 602
 Highrise 403.3.3.1
 Underground buildings 405.2

CONTRACTOR'S RESPONSIBILITIES 901.5

CONTROL AREA 414.2

CORNICES
 Masonry 2104.2.1
 Projection 704.2, 1406.3
 Draftstopping 716.2.6

CORRIDOR 1004.3.3
 Dead end (see Dead End)
 Headroom 1003.2.5.1
 HPM service 903.2.4.2
 Open ended 1003.3.6
 Ramps 1003.2.7
 Walls 708.1
 Width 1003.2.3.1, 1003.3.3.3

CORRIDOR PROTECTION, EXIT ACCESS
 Construction, fire protection 708.1, Table 1004.3.2.1
 Doors 714.2.3
 Interior finish Table 803.4, 804.4
 Opening protectives Table 714.2
 Return and exhaust air 715.5.4

CORROSIVES 414.3

COURTS 704.3, 1205

COVERED MALL BUILDINGS 402
 Emergency voice/alarm system 907.2.21
 Standby power 2702.2.13
 Standpipe system 905.3.4

CONVEYING SYSTEMS 3005

CRAWL SPACE
 Access 1208.2
 Drainage 1806.1.2
 Ventilation 1202.3

CRYOGENIC FLUIDS Table 307.7, Table 414.5.1, Table 415.9

D

DAMPERS (see FIRE DAMPERS, SMOKE DAMPERS) 715.2 - 715.5

DAMPPROOFING AND WATERPROOFING 1806
 Required 1806.2, 1806.3
 Subsoil drainage system 1806.4
DAY CARE 305.2, 308.5
DEAD END 1004.3.3.4
 Aisle 1008.7.5
DEAD LOAD 1606
 Building materials 1606.1
 Definition 1602.1
 Footing design load 1805.4.1.1
 Load combinations 1605
DEFLECTION, STRUCTURAL 1604.3, 1620.1.5
DEMOLITION 3303
DIAPHRAGMS
 Definition 1602.1, 1609.2
 Irregularities, seismic Table 1616.5.1
 Masonry construction 2109.2.1.3
 Particleboard 2306.4.3
 Seismic design 1620.1.5, 1620.3.3
 Steel deck 2205
 Vertical gypsum board 2504, Table 2306.4.5
 Wood 2302.1, 2305, 2305.2, 2306.3
 Wood structural panel 2303.1.4
DOORS 1003.3
 Access-controlled 1003.3.1.3.4
 Closers and Latches 714.2.7
 Emergency egress 1009
 Fire (see OPENING PROTECTIVES) 714.2,
 1005.3.5.2
 Glass 714.2.6, 1405.12
 Horizontal sliding 1003.3.1.3.3
 In means of egress 1003.2.3
 Landings 1003.3.1.5
 Locks and Latches (see LOCKS) 1003.3.1.8
 Panic and fire exit hardware 1003.3.1.9
 Power operated 1003.3.1.3.2
 Revolving 1003.3.1.3.1
 Security grilles 1003.3.1.3.5
 Side swinging 1003.3.1.2
 Smoke barrier 709.5
 Thresholds 1003.3.1.6
 To area of refuge 1003.2.13.5.5
 Width 1003.3.1.1
DRAFTSTOPPING
 Attics 716.4
 Floor-ceiling assemblies 716.3
DRY CLEANING PLANTS 415.7.4
DRYING ROOMS 417
DUCTS AND AIR TRANSFER
OPENINGS 704.14, 706.9, 715
DUMBWAITERS 707.14

E

EARTHQUAKE LOADS
 (see SEISMIC) 1613 - 1623
EAVES (see COMBUSTIBLE PROJECTIONS and
CORNICES)
 Live Load, Uniform 1607.11.2.5
EDUCATIONAL OCCUPANCY (GROUP E) 305
 Day care 305.2
 Egress, special provisions 1003.3.1.9
 Fire alarm 907.2.3
 Manual fire alarm boxes 907.3
 Panic hardware 1003.3.19
 Special occupancy separation Table 302.3.3
 Sprinkler system 903.2.2
EGRESS (see MEANS OF EGRESS) Chapter 10
ELECTRICAL Chapter 27
ELEVATOR
 Accessibility 62.1109(6), 3001.3
 Car size 3001.3, 3002.4
 Construction 707.14
 Conveying systems 3005
 Emergency operations 3002.3, 3002.5, 3003
 High-rise 403.9
 Hoistway enclosures 3002, 3005
 Hoistway venting 3004
 Lobby 707.14.1
 Machine rooms 3006
 Means of egress 1003.2.9,
 1003.2.13.1, 1003.2.13.1.1, 1003.2.13.3
 Number of elevator cars in hoistway 3002.2
 Personnel and material hoists 3005.4
 Seismic requirements 1621.3.14
 Shaft enclosure 707.14
 Signs 1003.2.13.6
 Standby power 2702.2.5, 2702.2.18
EMERGENCY COMMUNICATIONS
 Area of refuge 1003.2.13.5.3
EMERGENCY EGRESS OPENINGS
 Window wells 1009.5
EMERGENCY LIGHTING 1003.2.11
EMERGENCY POWER
 Exit signs 2702.2.3
 Group I-3 408.4.2, 2702.2.16
 Hazardous 414.5.4, 415.9.10
 High-rise, business and residential
 occupancies 403.10, 2702.2.14
 Loads, underground buildings 405.10.1
 Means of egress illumination 1003.2.11.2,
 2702.2.4
 Underground buildings 405.10
ENCLOSED, WALKWAY 3104

END-JOINTED LUMBER 2303.1.1

ENERGY EFFICIENCY Chapter 13

ENGINEER (see REGISTERED DESIGN PROFESSIONAL)

EQUIVALENT OPENING FACTOR Figure 704.7

ESCALATORS AND MOVING WALKS 3005

 Floor opening protection 707.2

 Illumination 2702.2.4

 Prohibited as means of egress 1003.2.9

EXCAVATION, GRADING AND FILL 1803

EXISTING BUILDING

 Accessibility 62.1103(2)(b), 3408

 Escalator 3408.7.3

 Historic 3406

EXIT (see MEANS OF EGRESS)

 Aisles 1004.3.2

 Aisles with tables 1004.3.1

 Boiler rooms 1007.1

 Construction 706.1

 Corridors 1004.3.3

 Courts 1006.3.1

 Discharge 1006

 Enclosure, vertical exit 1005.3.2

 Fire resistance 706.3, 1005.3.2

 Furnace rooms 1007.1

 Horizontal 1005.3.5

 Illumination 1003.2.11

 Incinerator rooms 1007.1

 Interior finish Table 803.4

 Mezzanines 505.3, 1004.2.1

 Number, minimum 1004.2, 1005.2.1

 Passageway 1005.3.3

 Path, common 1004.2.5

 Refrigerated rooms or spaces 1007.3

 Refrigeration machinery rooms 1007.2

 Signs (see Exit signs)

 Travel distance 1004.2.4

 Underground buildings 405.8

EXIT ACCESS (see MEANS OF EGRESS) 1003, 1004

EXIT DISCHARGE (see MEANS OF EGRESS) 1006

EXIT PASSAGEWAY (see MEANS OF EGRESS) 1005.3.3

EXIT SIGNS 1003.2.10

 Area of refuge 1003.2.13.6

 Special amusement buildings 411.7

EXPLOSIVES Table 414.5.1, Table 415.3.2.2, Table 415.9

EXTERIOR WALLS (see WALLS, EXTERIOR) 704, Chapter 14

F

FACTORY OCCUPANCY (GROUP F) 306

 Increase dead end distance 1004.3.3.4(2)

 Low hazard occupancy 306.3

 Moderate hazard occupancy 306.2

 Smoke and heat vents 910.2

 Travel distance increase 1004.2.4.1

FASTENING, WOOD CONSTRUCTION 2304.9

FENCES 312.1

FIBERBOARD 2303.1.5

FILL MATERIAL 1803.4

FINGER-JOINTED LUMBER (see End-Jointed Lumber)

FIRE ALARM AND DETECTION SYSTEMS

 Aerosol storage 907.2.16

 Assembly 907.2.1

 Atriums 907.2.13

 Audible alarm 907.9.2

 Battery room 907.2.23

 Construction documents 907.1.1

 Covered mall 907.2.20

 High-rise 907.2.12

 Lumber storage 907.2.17

 Occupancy requirements 907.2.1, 907.2.10

 Special amusement buildings 907.2.11

 Underground buildings 907.2.18, 907.2.19, 907.2.20

 Visible alarm 907.9.1

FIRE ALARM BOX, MANUAL 907.3

FIRE BARRIERS 706

FIRE COMMAND STATION 403.7, 403.8, 911

FIRE DAMPERS 715.2 - 715.5

FIRE DEPARTMENT ACCESS 402.15

FIRE DETECTION SYSTEM, AUTOMATIC

 Airport traffic control towers 412.1.4

 Atriums 404.6

 High-rise buildings 403.5

 Institutional occupancy 407.2.1, 407.2.3, 407.6

 Special amusement buildings 411.3

FIRE DOOR (see OPENING PROTECTIVES) 714, 1005.3.5.2,

FIRE EXTINGUISHERS, PORTABLE 906

FIRE EXTINGUISHING SYSTEMS, NON-WATER BASED 904

FIRE PARTITION 602.4.6, 708, 715.5.3

FIRE PROTECTION

 Alarm, emergency systems 908

 Alarm, audible 907.9.2

 Alarms, visible 907.9.1

 Explosion control 414.5.1, 911

 Fire extinguishers, portable 906

Glazing, rated 714.3
 Smoke control systems 909
 Smoke and heat vents 415.6, 910
 Sprinkler systems 903
FIRE PROTECTION SYSTEMS 901.2
FIRE RESISTANCE
 Calculated 720
 Conditions of restraint 703.2.3
 Ducts and air transfer openings. 715
 Joint systems. 712
 Prescriptive 719
 Ratings Chapter 6, 703, 704.5, 706
 Tests 703
 Thermal and sound insulating materials . . . 718.1
FIRE RESISTANCE, CALCULATED 720
 Clay brick and tile masonry 720.4
 Concrete assemblies 720.2
 Concrete masonry 720.3
 Steel assemblies 720.5
 Wood assemblies 720.6
FIRE-RETARDANT-TREATED WOOD
 Awnings 3105.2
 Balconies 1406.3
 Canopies 3105.2
 Concealed spaces 716.5
 Fastening 2304.9.5
 Fire wall vertical continuity 705.6
 Partitions 603.1
 Platforms 410.4
 Roof construction Table 601, 705.6, 1505,
 Shakes and shingles 1505.6.1
 Veneer 1405.4
FIRE SEPARATION DISTANCE Table 602, 702
 Exterior walls 1406.2.1.1
FIRE SHUTTER (see OPENING PROTECTIVES) 714.2
FIRE WALLS 705
 Combustible framing. 705.7
 Exterior intersecting walls 705.5.1
 Fire-resistance rating 705.4
 Materials. 705.3
 Openings, protected. 705.8
 Structural stability 705.2
FIRE WINDOWS (see OPENING PROTECTIVES)
FIREBLOCKING 716.2
 Chimneys 716.2.5, 2111.14, 2113.20
 Wood construction. 716.2.1, 716.2.7, 1406.2.4
 Wood stairs 716.2.4
FIREPLACES, FACTORY-BUILT 2111.16.1
FIREPLACES, MASONRY
 Combustibles. 2111.12, 2111.13
 General provisions 2111
 Hearth extension 2111.9, 2111.10
 Steel units. 2111.6
FIREWORKS 307.3
FLAMESPREAD 802, Table 803.4
FLAMMABLE FINISHES 416
 Fire protection 416.4
FLAMMABLE AND COMBUSTIBLE LIQUIDS . 415.7.2
FLAMMABLE SOLIDS 307.5, 415.1
FLASHING. 1503.2, 1507.3.9, 1507.5.6,
 1507.7.6, 1507.8.7, 1507.9.8, 1510.6
 Roof 1503.2
 Wall, veneer 1405.3, 1405.11.7
FLOOD-RESISTANT CONSTRUCTION 1403.6
FLOOR/CEILING (see FLOOR CONSTRUCTION)
FLOOR CONSTRUCTION (see FLOOR CONSTRUCTION, WOOD)
 Draftstopping 716.3
 Fire resistance 706.3, 710
 Live loads 1607.2, 1610
 Materials Chapter 6
 Penetration of fire-resistant assemblies 710.5, 711
FLOOR CONSTRUCTION, WOOD
 Beams and girders 2304.11.2.4, 2308.7
 Bridging/blocking. 2308.8.5, 2309.9.9, 2308.10.6
 Glass 2409
 Diaphragms 2305.2
 Fastening schedule 2304.9.1
 Framing 602.4.2, 2304.4
 Joists 2308.8
 Sheathing 2304.7
FLOOR COVERING 804.1, 804.2
FLOOR FINISH, INTERIOR. 804
FLOOR LEVEL AT DOORS 1003.3.1.4
FLOOR LOADS
 Combination 1605
 Live 1607
 Posting. 1603.1.1
 Soil pressures 1610
FLOOR OPENING PROTECTION (see VERTICAL OPENING PROTECTION)
FOAM PLASTICS 402.14.5
 Attics. 718.3.1, 2603.4.1.6
 Concealed 603
 Cold storage. 2603.4.1.2
 Crawl space 2603.4.1.6
 Density mall signs 402.14.5.1
 Doors 2603.4.1.7
 Exterior walls of multistory buildings 2603.5
 Interior finish. 801.2.2, 2603.7, 2604

INDEX

Label/identification 2603.2
Roofing 2603.4.1.5
Siding backer board 2603.4.1.10
Stages and platform scenery 410.3.7
Surface burning characteristics 2603.3
Thermal barrier requirements. . . 2303.4, 2603.5.2
Thickness 402.14.5.2
Trim 805.3, 2604
Walk-in coolers 2603.4.1.3
FOOD COURT 402.2
Occupant load 402.4.1.4
FOOTBOARDS 1008.13
FOOTINGS AND FOUNDATIONS . . . 1805, 1910.4.4.2
FORMWORK, CONCRETE 1906
FOUNDATION
Basement floor and wall loads 1610
Footing design 1801.2, 1805.4.1
Pier 1807.2
Pile (see PILE FOUNDATIONS) 1807.2
Required for wood buildings 2308.6
Seismic provisions 1807.2.23, 1910.4.4.1
Soils investigation
(see SOILS) 1802.2.1, 1802.4
Waterproofing and dampproofing 1806
FOYERS
Assembly occupancy 1008.3
Covered mall 402.1
FRATERNITIES, classification 310
FURNACE ROOMS 1007

G

GALLERIES
Assembly occupancy egress, means of . . . 1008.4
Exterior 1004.3.4
Stages 410.3.2, 1007.5.1
GARAGE, AUTOMOBILE PARKING 406.2
Accessible provisions 62.1106, 62.1110(1)
Barriers, vehicle 406.2.4, 1607.7.3
Beneath other occupancies 406.2.7, 508
Construction type . . 406.3.3, Table 503, Table 601
Guards 406.2.3
Enclosed 406.4
Occupancy separation 302.3, 508
Occupant load Table 1003.2.2.2
Open 406.3
Occupancy separation private garage . . . 302.3.3
Sprinklers 903.2.11
Underground 405
GARAGE, REPAIR 406.6
Flammable gas detection
system 406.6.6.3, 908.5

Sprinklers 903.2.10.1
GARAGES AND CARPORTS,
PRIVATE 302.3.3, 406.1
Area limitations 406.1.2
GARAGES, TRUCK AND BUS
Live load 1607.6
Sprinklers 903.2.11.1
GATES 1003.3.2
GIFT SHOPS 304, 407.2.4
GIRDERS
Fire resistance Table 601
Materials Chapter 6
Wood construction 2304.11.2.4, 2308.7
GLASS
Dead loads 2404
Fire doors 714.2.5
Fire resistant walls 714.3.6.2, 714.3.8
Fire windows 714.3.6, 714.3.7
Floors and sidewalks 2409
Handrails and guards 2407
Identification 2403.1
Impact loads 2406.1, 2408.2
Jalousies 2403.5
Label/identification . . 714.2.6.3, 714.2.5.1, 714.3.9
Louvered windows 2403.3
Non wired 714.3.3
Railings 2407
Replacement 2401.2
Safety 714.2.6.4, 2406
Skylights 2405
Sloped 2405
Snow loads 2404
Supports 2403.2
Testing 2406.1, 2408.2
Veneer 1405.11
Vertical 2404.1
Wind loads 2404
Wired 714.3.2
GLASS BLOCK 2110
Atrium enclosure 404.5
Fire resistance 2110.1.1
Hazardous locations 2406, 2406.2.1
Material requirements 2103.5
GRADE (PLANE) 502
GRADE, LUMBER
(see LUMBER) 2302.1
GRAIN ELEVATORS 415.7.1.5
GRANDSTANDS, REVIEWING STANDS
and BLEACHERS 1008.5
Accessibility 1107.2.2
Definition 1002
Egress 1008.5

Exit signs 1003.2.10.1(5)
 Live load Table 1607.1
 Occupant load 1003.2.2.9
 Open air 1008.5.3, 1008.6

GREENHOUSES
 Area Table 503
 Classification of 312.1
 Deflections Table 1604.3
 Membranes 3102.1
 Plastic 2606.11
 Roof live load 1607.11.2.1
 Sloped glazing 2405

GRINDING ROOMS 415.7.1.2

GROSS LEASABLE AREA
 (see **COVERED MALL BUILDINGS**) 402

GROUT 711.3.1, 711.4.1, 2103.10

GUARDS 1003.2.12
 Equipment platform 505.5.3
 Glass 2406.2(10), 2407
 Grandstands, reviewing stands,
 and bleachers 1008.12
 Landings 1003.2.12
 Loads 1607.7
 Mechanical equipment 1003.2.12.4
 Opening limitations 1003.2.12.3
 Parking garage 406.2.3
 Plastic 2606.5
 Ramps 1003.3.4.9
 Residential 1003.2.12.1
 Screen porches 1003.2.12.3
 Structural design 1607.7
 System, defined 1002.1

GUARDRAILS, VEHICULAR 406.2.3, 1607.7.3

GUTTERS 1503.4.1

GYMNASIUMS
 Live load Table 1607.1
 Occupant load 1003.2.2.2
 Special occupancy
 separation Table 303.3.3(e)

GYPSUM Chapter 25
 Aggregate, exposed 2513
 Board Chapter 25
 Concrete, reinforced 1915
 Construction 2508
 Diaphragms 2305.2
 Draftstopping 716.3.1
 Exterior soffit Table 2506.2
 Fastening 2211.4.3, 2306.4.5.1.4,
 Table 2306.4.5, 2508.1
 Fire resistance 720.2.1.4, 720.6.2A
 Fire-resistant joint treatment 2508.4
 Inspection 2503

Lath 2507, 2510
 Lathing and furring for cement plaster . . 717, 2510
 Lathing and plastering 2507
 Materials 2506
 Plaster, interior 2511
 Plaster, exterior 2512
 Shear wall construction . . . Table 2211.12, 2306.4,
 2308.9.3, 2505
 Sheathing 2304.6.1, 2211.4
 Showers and water closets 2509
 Stucco 2510
 Veneer base 2507.2
 Veneer plaster 2507.2
 Vertical and horizontal assemblies 2504
 Wallboard Table 2506.2
 Water-resistant backing board . . 2506.2, 2509.1.2

H

HANDRAILS 1003.3.3.11, 1607.7
 Assembly aisles 1008.11
 Alternating tread devices 1003.3.3.10
 Glass 2407
 Grandstands, reviewing stands,
 bleachers 1008.11
 Graspability 1003.3.3.11.3
 Guards 1003.1.12
 Loads 1607.7
 Plastic 2606.5
 Projection 1003.3.3.11.7, 1003.3.3.12
 Ramps 1003.3.4.7
 Stairs 1003.3.3.11

HARDBOARD 1404.3.2, 2303.1.6

HARDWOOD
 Fastening 2304.9
 Quality 2301.4.7
 Thermal barriers 2603.4
 Veneer 1404.3.2

HIGH-HAZARD OCCUPANCY 307, 415
(GROUP H)
 Classification 307
 Combustible liquids 415.7.2
 Control areas 414.2
 Conveyors 415.7.1.3
 Corrosives Table 414.2.4, 414.3
 Cryogenic fluids Table 414.5.1, Table 415.9
 Dispensing, use and handling 414.7.2
 Dry cleaning (see **DRY CLEANING**)
 Egress, special provisions 415.7.4
 Emergency alarm systems 908.1
 Exceptions 307.9
 Explosives Table 414.5.1, Table 415.3.1

Exempt	307.9	Ventilation	Table 414.2.4, 414.3, 415.7.2.8, 415.9.2.6, 415.9.4.3, 415.9.5.7, 415.9.6.3
Factory industrial F-1 moderate hazard occupancy.	306.2	Weather protection	414.6.1
Factory industrial F-2 low hazard occupancy.	306.3	HEAD JOINT, MASONRY	
Fire alarm, manual	901.7.3	Bonding pattern.	2109.6.5
Flammable liquids	415.7.2	Seismic	2106.5.2
Flammable solids		Thickness.	2104.1.2.1
Grinding rooms.	415.7.1.2	HEADER, MASONRY, (BONDER)	
Group H-1.	307.3	DEFINITION	2102
Group H-2.	307.4	HEADROOM	
Group H-3	307.5, 415.8	Means of egress.	1002.2.5.1, 1003.3.4.4.2
Group H-4	307.6, 415.8	Stairs	1003.3.3.2
Group H-5	307.7, 415.9	HEALTH CARE	
Health-hazard materials.	415.2, Table 414.2.4, 415.4, 415.9.6.2, Table 415.9	Clinics	304
Height	415.4, 415.5	Hospitals	308
Interior finishes	416.2.1, 416.3.1	HEALTH-HAZARD MATERIALS	307.2
Irritants	Table 414.2.4, Table 415.9	HEAT VENTS	415.6, 910
Liquid, highly toxic and toxic.	415.8.3, 908.3	HEATING (see MECHANICAL)	
Location on property	415.3	Aircraft hangars.	412.2.4
Multiple hazards	307.8	Parking garages	406.2.8
Organic peroxides.	Table 415.3.2,	Repair garages	406.6.5
Oxidizers, liquid		HEIGHT, BUILDING	Chapter 5
and solid	414.5.4, 415.5.1, 415.6	Limitations	503
Permit drawings and specifications.		Mixed construction types	503.1
Pyrophoric materials	415.4.1, 415.5.1	Modifications	504
Sensitizers	Table 415.9	Roof structures.	504.3
Separation from other		HEIGHT, STORY	502.1
occupancies	Table 415.3.1, 415.7.3.4.1, 415.9.5.9	HELISTOPS	1005.2.1.2
Solids, highly toxic and toxic.	415.8.3, Table 415.9, 908.3	HIGH PILED COMBUSTIBLE STORAGE	413, 907.2.14, 910.2.3
Special provisions H-2, H-3.	415.4, 415.5	HIGH-RISE BUILDINGS	403
Sprinklers	415.5.2, 415.7.2.4 415.9.6.3, 415.9.9, 415.9.10.1, 415.9.11, 704.8.1, 903.2.4	Automatic fire detection	403.5, 907.2.12
Standby power systems	2702.2.9 - 2702.2.12	Automatic sprinkler system	403.2
Storage and dispensing	414.1, 414.5, 414.6	Elevators.	403.9
Tank protection	415.7.2.2, 415.7.2.3	Fire command station.	403.8
Unstable materials	Table 414.2.4, Table 414.5.1, Table 415.3.2, 415.5.1, 415.6, 415.9, Table 415.9.5.9	Fire department communication.	403.7
Water-reactive materials	Table 414.5.1.2, Table 415.3.2, 415.5, 415.5.1, 415.5.2, 415.6, Table 415.9.5, 415.9	Seismic	1614
HAZARDOUS MATERIALS	414	Smokeproof enclosure	1005.3.2.5
Control areas.	414.2, 415.9.4.6	Sprinklers	403.3, 903.3.1.1
Explosion control	414.5.1, Table 414.5.1, 415.7.1.4, 415.9.5.4	Stairway door operation	403.11
Special provisions	415.4, 415.5	Standby power, light and emergency systems.	403.10, 2702.2.14
Sprinklers	Table 414.2.4, 415.5.2, 415.7.2.4	Voice alarm.	403.6, 907.2.12
		Zones	907.8.2
		HORIZONTAL EXIT	1005.3.5
		Accessibility	1003.2.13.1
		Doors	1005.3.5.2
		Fire resistance	1005.3.5.1
		Institutional I-3 occupancy	408.2, 1005.3.5
		Institutional I-2 occupancy.	1005.3.5
		Travel distance.	1004.2.4

HORIZONTAL FIRE SEPARATION 704
 Combustible projections 704.2
HOSE CONNECTIONS (see STANDPIPES)
HURRICANE SHUTTERS 1609.1.4

I

INCINERATOR ROOMS 1007.1
INDUSTRIAL (FACTORY-INDUSTRIAL OCCUPANCY)
INSPECTIONS
 Lath or gypsum board 2503
 Pile 1807.2
 Sprinklers 904.4
 Welding 2208
INSTITUTIONAL OCCUPANCY (GROUP I) 308
 Child care 308.3.1
 Group I-1 308.2
 Group I-2 308.3, 407
 Group I-3 308.4, 408
 Group I-4 day care facilities 308.5
 Sprinkler system, automatic 903.2.5
INSTITUTIONAL I-1 308.2
 Emergency egress 1009.1
 Fire alarm 907.2.6.1
 Visible alarms 907.9.1.2
 Sprinklers 903.2.5, 903.3.2
INSTITUTIONAL I-2
 Accessibility 62.1107(5)
 Combustible decorations 805.1
 Corridor width 1004.3.3.3
 Exterior exit stair 1005.3.6.1
 Fire alarm and detection 907.2.6
 Special requirements 407
 Sprinklers 903.2.5, 903.3.2
 Suites 1004.2.3.2
 Openings in smoke barriers 909.5.2, 709.5
INSTITUTIONAL I-3 308.4
 Exit sign exemption 1003.2.10.1
 Openings in smoke barriers 909.5.2
 Special requirements 408
INSTITUTIONAL I-4 308.5
 Corridor rating 1004.3.3.1
 Fire alarm 907.2.6
 Sprinklers 903.2.5
INSULATION
 Concealed 718.2
 Duct insulation 718.1
 Exposed 718.3
 Foam plastic (see FOAM PLASTIC INSULATION) 718.1
 Penetrations 711.3.4

Roof 718.5
 Thermal 718
 Wall insulation 2303.1.5.2

INTERIOR ENVIRONMENT

Lighting 1204
 Sound transmission 1206
 Space dimensions 1207
 Temperature control 1203
 Ventilation 1202.5
 Yards or courts 1205.2, 1205.3

INTERIOR FINISHES Chapter 8

Acoustical ceiling systems 803.8
 Application 803.3, 804.4
 Atriums 404.8
 Decorative materials 801.1.2, 805
 Floor finish 804
 Foam plastic insulation 2603.4
 Foam plastic trim 805.3
 Light-transmitting plastics 2606
 Signs 402.13, 2611
 Wall and ceiling finishes 803

J

JOINTS, FIRE-RESISTANT SYSTEMS 712

K

KIOSKS 402.10

L

LABORATORIES

Classification of 302
 Hazardous materials 414
 Incidental use Table 302.1.1
 Live load Table 1607.1

LAMINATED TIMBER, STRUCTURAL

GLUED 602.4, 2301.3

LANDINGS

Doors 1003.3.1.5
 Helistops 1005.2.1.2
 Ramp 1003.3.4.5
 Stair 1003.3.3.4, 1003.3.3.1

LATH, METAL OR WIRE Chapter 25

LAUNDRIES 304, Table 302.1.1

LAUNDRY CHUTE 707.13, 903.2.12.2

LEGAL (see LIABILITY)

Federal and state authority 102.2
 Notice of violation 115.3
 Unsafe buildings or systems 115

INDEX

LIBRARIES

- Other than school, classification 303.1
- School, classification 305.1

LIGHT, REQUIRED 1204.1

LIGHTING, EMERGENCY
(see EMERGENCY LIGHTING)

LIGHTS, PLASTIC CEILING DIFFUSERS. 2606.7

LINTEL

- Adobe 2109.8.4.7
- Fire resistance 713.6
- Masonry 2104.1.5
- Masonry, wood support 2304.12
- Veneer 1405.5.1

LIQUEFIED PETROLEUM GAS 415.7.3

LIVE LOAD 1607

- Deflections Table 1604.3
- Load Combinations 1605

LOADS

- Dead 1606
- Impact 1607.8
- Live 1603.3, 1607
- Pile foundation 1807, 1810
- Rain 1611
- Seismic 1603.1.5, 1613 - 1620
- Snow 1608
- Soil lateral 1610
- Structural Chapter 16
- Structural, combinations 1605
- Wind 1603.1.4, 1609

LOBBIES

- Assembly occupancy 1008.3
- Elevator 707.14.1

LOCKS AND LATCHES 1003.3.1.8

- Delayed egress locks 1003.3.18.2
- Institutional I-3 occupancy 408.4

LUMBER

- General provisions Chapter 23
- Quality 2302

M

MAINTENANCE

- Accessibility 1103.2.9

MALL (see COVERED MALL BUILDINGS)

MANUAL FIRE ALARM BOX 907.3

MARQUEES 3106

MASONRY

- Adhered veneer 1405.9
- Adobe 2109.8.1 - 2109.8.3
- Anchorage 1604.8.2, 2106.2.1, 2109.7
- Anchored veneer 1405.5
- Ashlar stone 2102

- Bond 2109.6
- Cavity wall 2109.4.2
- Chimneys 2111
- Cold weather construction 2104.3
- Compressive stress requirements 2109.3
- Construction 2104, 2109.8.4
- Construction documents 2101.3
- Corbelled 2104.2
- Dampproofing 1806
- Design, methods 2101.2, 2106 - 2109
- Fire resistance, calculated 720.3.2, 720.3.4
- Fireplaces 2101.3.1, 2111
- Floor anchorage 1604.8.2, 2109.7.3
- Foundation walls 1805.5
- Foundations adobe 2109.8.4.3
- Glass unit 2101.2.4, 2103.5, 2110
- Grouted 2102
- Headers (BONDERS) 2109.6.2
- Hollow units 2104.1.2.2
- Hot weather construction 2104.4
- Joint reinforcement 2103.11.2, 2106.4.2.3.1, 2108.9.2.2, 2109.7.2.3
- Lateral stability 2109.2
- Lateral support 2106.2.1, 2109.4
- Lateral tie anchorage 2106.5.6
- Materials 2103
- Parapet walls 2109.5.5
- Partition walls 2106.4.1.2, Table 1621.2
- Penetrations 711, 711.3.1
- Quality assurance 2105
- Roof anchorage 1604.8.1, 1620.1.7, 2106.2.1, 2109.7.3
- Rubble stone 2102
- Running bond 2109.6.5, Table 2108.7.5
- Seismic provisions 2106
- Shear walls 1620.1.7, 2106.1.1, 2106.5.3
- Solid 2104.1.2.3, 2109.6.2.1
- Stack bond 2106.5.2, 2106.6, 2109.6.5.2
- Stone 2103.3, 2109.8
- Support (see MASONRY, LATERAL SUPPORT) 2304.12
- Surface bonding 2103.8
- Test procedures 2105.2.2.2, 2105.4
- Thickness 2109.5
- Tie, wall 2104.1.3, 2109.6.3
- Veneer 2101.2.5, 2308.11.2
- Wall anchorage 1604.8.2, 1620.1.7, 2109.7
- Wall, composite 2102.1
- Wall, hollow 2102.1
- Wall, intersecting 2109.7.2
- Waterproofing 1806
- Weepholes 2104.1.8

Wetting brick	2104.5	Vertical exit enclosures	1005.3.2
Wythe defined	2102.1	Width	1003.2.3, Table 1003.2.3.1, 1008.5, 1008.8
MATERIALS		MECHANICAL (see AIR CONDITIONING, HEATING AND REFRIGERATION, AND VENTILATION)	
Aluminum	Chapter 20	Air transfer openings	704.14, 705.11, 706.9, 715.4
Concrete	Chapter 19	Chimneys (see CHIMNEYS)	2113
Glass	Chapter 24	Code	Chapter 28
Gypsum	Chapter 25	Equipment on roof	1509, 1510.2
Masonry	Chapter 21	Factory-built fireplace	2111.16.1
Noncombustible	703.4	Fireplaces (see FIREPLACES)	2111.1
Plastic	Chapter 26	Room separation	302.1.1
Steel	Chapter 22	Seismic attachment	1621.3.12.2
Testing (see TESTING)		Smoke control systems	909
Wood	Chapter 23	Systems	Chapter 28
MEANS OF EGRESS	Chapter 10	MEMBRANE ROOF COVERINGS	1507.11, 1507.12, 1507.13
Accessible	1003.2.13, 2702.2.5	MEMBRANE STRUCTURES	2702.2.8, 3102,
Aisles	1004.3.1	MENTAL HOSPITALS, CLASSIFICATION	308.3
Assembly	1008.1, 1008.2, Table 1008.5	MERCANTILE OCCUPANCY (GROUP M)	
Capacity	1003.2.3.1	Area	505, 506, 507
Ceiling height	1003.2.4	Classification	309
Corridors	1004.3.2	Height	504, 508.4
Covered mall buildings	402.4	Interior finishes	Table 803.4
Doors	1003.3.1	Sprinkler system, automatic	903.2.6
Educational occupancy	308.5.2	METAL	
Elevation change	1003.2.7	Aluminum	Chapter 20
Elevators, escalators and moving walks	1003.2.9	Roof coverings	1504.3.2, 1507.5
Emergency escape and rescue	1009	Veneer	1404.5
Enclosures under stairways	1005.3.2.2	MEZZANINES	505
Exit access	1004	Accessibility	62.1104(4), 62.1108(2)(c)
Exit components	1005.3	Egress	505.3, 1003.2.2.8
Exit discharge	1006	Height modifications for	505.1
Exit passageway	1005.3.3	Stairs	707.2(9), 1003.3.3.10
Exit signs	1003.2.10	MIRRORS	1003.3.1, 2406.2.1(7)
Exit doors	1005.3.1	MIXED OCCUPANCY (see OCCUPANCY, MIXED AND OCCUPANCY SEPARATION)	
Floor surface	1003.2.6	MOISTURE PROTECTION	1403.2, 1503 2303.2.3, 2304.11
Gates	1003.3.2	MONASTERIES, CLASSIFICATION	310.1
Grandstands	1008.5	MORTAR	
Guards	1003.2.12	Ceramic tile	2103.4
Helistops	1005.2.1.2	Compressive stresses, masonry	Table 2103.7(2)
Illumination	1003.2.11	Dampproofing	1806
Minimum width	1003.2.3.1	Fire resistance	711.3.1, 711.4.1
Occupant load	1003.2.2	Glass block	2110.6
Path of egress travel, common	1004.2.5	Material	2103.7
Protruding objects	1003.2.5	Placing	2104.1.2
Ramps	1003.3.4	Surface-bonding	2103.8
Residential aircraft hangars	412.3.3	Testing	2105.4
Seating at tables	1004.3.1	MOTELS, CLASSIFICATION	310.1
Stage	1007.5		
Stairways	1003.3.3		
Temporary structures	3103.4		
Travel distance	1004.2.4, 1008.6		

MOTION PICTURE PROJECTION ROOMS 409
 Construction 409.2
 Exhaust air 409.3.1.2
 Lighting control 409.4
 Projection room 409.3.1
 Supply air 409.3.1.1
 Ventilation 409.3

MOTOR VEHICLE RELATED USE GROUPS 304, 311, 406

MOVING WALKS, MEANS OF EGRESS 1003.2.9, 3005.2

N

NAILING REQUIREMENTS 2304.9

NONCOMBUSTIBLE BUILDING MATERIAL . . . 703.4

NURSING HOMES, CLASSIFICATION 308.3

O

OCCUPANCY

 Accessory 302.2

 Atriums 404.2

 Certificates (see CERTIFICATES OF OCCUPANCY)

 Floor loads Table 1607.1

 Special Chapter 4

OCCUPANCY CLASSIFICATION

 Covered mall buildings 402

 HPM 415.9

 Mixed 302.3

 Special Chapter 4

OCCUPANCY SEPARATION

 Covered mall building 402.7.2

 Incidental use areas 302.1.1, 706.3.4

 Parking garages Table 302.3.3(c), 406.1.2, 406.2.7

 Repair garages 406.6.2

 Required fire resistance Table 302.3.3

 Residential aircraft hangars 412.3.2

OCCUPANT LOAD

 Covered mall building 402.4.1

 Determination of 1003.2.2

 Increased 1003.2.2.4

 Signs 1003.2.2.5

OFFICE BUILDINGS, CLASSIFICATION OF 304

OPENING PROTECTION, EXTERIOR WALLS 704.1

OPENING PROTECTION, FLOORS (see VERTICAL OPENING PROTECTION)

OPENING PROTECTION, INTERIOR WALLS

OPENING PROTECTIVES 714

 Automatic closing devices 714.2.7, 909.5.2

 Fire door and shutter assemblies 714.2.8

 Fire windows 714.3.6, 714.3.7

 Glass 714.3

 Glass block (see GLASS BLOCK) 2110.1.1

 Interior walls 708.6

 Required fire resistance 714.2

 Self-closing 714.2.7

ORGANIC COATINGS 418

ORGANIC PEROXIDES 307.4, 307.5

OXIDIZERS, LIQUID AND SOLID 307.2

P

PANIC HARDWARE 1003.3.1.9

PARAPET, EXTERIOR WALL 704.11, 2109.5.5

 Construction 704.11.1

 Fire wall 704.11, 705.6

 Height 504.3

 Seismic loads 1621.2

PARKING, ACCESSIBLE 1106

PARKING GARAGES (see GARAGES, AUTOMOBILE PARKING) 406.2

 Classification 406.2.1

 Barriers, vehicle 406.2.4

 Guards 406.2.3

 Height, clear 406.2.2

 Mixed separation 406.2.7

PARKING GARAGES, OPEN 406.3

 Area and height 406.3.5

 Construction type 406.3.3

 Stairs and exits 406.3.8

 Standpipes 406.3.9

PARKING GARAGES, ENCLOSED 406.4

 Heights and areas 406.4.1

 Ventilation 406.4.2

PARTICLEBOARD

 Draftstopping 716.3.1

 Fastening 2304.9

 Moisture protection 1403.2, 1405.2

 Quality 2303.1.9

 Seismic 2305

 Shear walls 2306.4.3

 Veneer 1405.4

 Wall bracing 2308.9.3

PARTITIONS

 Materials 602.4.6, 603.1

 Occupancy, specific 708.1

 Seismic bracing 1621.2.6.1

 Structural 1607.13

PARTITIONS, FIRE 708

 Construction, general 703

 Continuity 302.1.1.1, 708.4, 1004.3.3.6

Exterior walls	Table 602, 704.5, 708.5
Fire resistance rating of walls	603.1(8), 708.3
Joints	712
Joint treatment gypsum	2508.4
Opening protection	714
Rated glazing	714.3
PASSAGEWAY, EXIT (see EXIT)	1005.3.3
PASSENGER STATIONS, CLASSIFICATION OF PATIO COVERS	303, 2606.10
PEDESTRIAN	
Walkways and tunnels	3104
PENETRATIONS	711
Fire partitions	708.7
Fire-resistant assemblies	711.3
Nonfire-resistant assemblies	711.4.3
PENETRATION-FIRESTOP SYSTEM	
Fire-rated walls	711.3.2
Fire-rated horizontal assemblies	711.4.1.2
PERLITE	Table 719.1(1), Table 2507.2
PIER FOUNDATIONS	1807, 1811
PILE FOUNDATIONS	1807
Base piles, enlarged concrete	1809.2
Caisson	1809.7
Composite	1810
Concrete, cast-in-place	1809
Concrete-filled steel pipe and tube	1809.6
Concrete, precast	1808.2
Drilled or augered uncased	1809.3
Driven	1808, 1809.4
Pile load, allowable	1807.2.8
Seismic design	1807.2.23, 1808.2.2.2.1 - 1808.2.3.2.2
Steel-cased	1809.5
Steel, structural	1808.3
Timber	1808.1
PIPES	
Embedded in concrete	1906.3
Embedded in fire protection	713.3
Insulation covering	718.7
Penetration protection	711, 716.5, 1005.3.4.1
Under platform	410.4
PLAIN CONCRETE (see CONCRETE)	Chapter 19
PLANT NURSERIES	304
PLASTER	
Fire resistance requirements	717
Gypsum	717.1, 717.2
Portland cement	717.5, Table 2507.2, 2808.9.3(7)
PLASTIC	Chapter 26
Approval for use	2606.2
Finish and trim, interior	2604
Light-transmitting panels	2607
Plastic, (light-transmitting)	
Roofing	2609
Signs	402.12, 2611, D102.2.10, H107
Thermal barrier	2603.4
Veneer	1404.8, 2605, D102.2.11
Walls, exterior	2603.5
PLASTIC, FOAM	
Insulation (see FOAM PLASTIC INSULATION)	2603
Interior finish	2604
Malls	402.14.5
PLASTIC, LIGHT-TRANSMITTING	
Awnings and patio covers	2606.10
Bathroom accessories	2606.9
Exterior wall panels	2607
Glazing	2608
Greenhouses	2606.11
Light-diffusing systems	2606.7
Roof panels	2609
Signs, interior	2611
Skylight	2610
Solar collectors	2606.12
Structural requirements	2606.5
Unprotected openings	2608.1, 2608.2
Veneer, exterior	603.1(15), 2605
Wall panels	2607
PLATFORM	410
Construction	410.4
Temporary	410.4.1
PLATFORM LIFTS, WHEELCHAIR	1003.2.13.4, 1108.7
PLENUM	
Underground buildings	907.2.18.1
PLUMBING	
Facilities, minimum	2902
Fixtures	Table 2902.1
Residential aircraft hangars	412.3.5
PLYWOOD	
Bracing	2308.9.3
Decorative	2303.3
Design requirements	2301
Diaphragm	2305.2, 2306.3
Fastening	2304.9
Fire retardant treated	2303.2
Lateral loads, steel studs	2211.3, 2311.7.4
Preservative-treated	2303.1.8.1, 2304.11
Quality	2303
Roof sheathing	2304.7, 2308.10.8
Seismic shear panels	2305.1.5, 2305.3, 2308.12.4
Standards	2306.1

INDEX

Subfloors 804.4.1
 Veneer 1405.4
PRESCRIPTIVE FIRE RESISTANCE 719
PRESERVATIVE-TREATED WOOD
 Fastenings 2304.9.5
 Quality 2303.1.8
 Required 1403.6, 2304.11
 Shakes, roof covering 1507.9.5, 1507.9.7
PROJECTION ROOMS
 Motion picture 409
PROJECTIONS, COMBUSTIBLE 704.2.3, 1406.3
PROPERTY LINE, ASSUMED (see FIRE SEPARATION). 704.3
PROPERTY LINE, COMMON (see FIRE SEPARATION)
PROSCENIUM
 Opening protection 410.3.5
 Wall 410.3.4
PUBLIC ADDRESS SYSTEM
 Covered mall building 402.13, 2702.2.1.3
 Special amusement buildings. 411.6
 Underground buildings 405.7
PUBLIC PROPERTY Chapter 33
PYROPHORIC MATERIALS 307.4, Table 307.7(1)

R

RAILING (see GUARDRAIL AND HANDRAIL)
RAMPS 1003.3.4
 Assembly occupancy 1008.9
 Construction 1003.3.4.6
 Existing buildings. 3408.7.4
 Parking garage 406.2.5
 Slope 1003.3.4.1, 3408.8.5
REFERENCED STANDARDS Chapter 35
 Applicability 102.4
 Fire resistance. 703.2, 720.7
 List Chapter 35
 Organizations Chapter 35
REFORMATORIES. 308.4
REFRIGERATION (see MECHANICAL)
 System machinery room 1007.2
REFUGE AREAS (see AREAS OF REFUGE)
REFUSE CHUTE 707.13
REINFORCED CONCRETE
 General. 1901.2
 Seismic design 1910
REINFORCEMENT
 Concrete 1907
 Glass block. 2110.7
 Masonry 2103.11

RESIDENTIAL CARE/ASSISTED LIVING FACILITIES 308.1
 Accessibility 62.1107(6)(d)
 Fire alarms 907.2.6, 907.9.1.2
 Separations Table 302.1.1, Table 302.3.3
 Smoke Alarms 907.2.10.1.3
 Sprinklers 903.2.5, 903.3.2
RESIDENT HOUSING AREA, INSTITUTIONAL I-3 OCCUPANCY
 Accessibility 62.1107(5)(e)
 Fire detection 907.2.6.2
 Occupant load 1003.2.2.2
 Subdivision 408.7
RESIDENTIAL OCCUPANCY (GROUP R) 310
 Accessibility 62.1107(6)
 Area Chapter 5
 Doors 1003.3.1.1
 Draftstopping 716.4.2
 Emergency escape. 1009.1
 Height Chapter 5
 Interior finishes Table 803.4
 Parking under 508
 Partitions 708.1
 Smoke detectors 907.2.10
 Sprinklers 903.1.2, 903.2.7
 Unlimited height 508.4
 Visible alarms 907.9.1.2
RETAINING WALLS 1610.2
REVIEWING STANDS
 Egress 1003.5.3
 Live load Table 1607.1
 Occupant load 1003.2.2.9
RISERS, STAIR (see STAIRWAY CONSTRUCTION)
 Closed 1003.3.3.3.2
 General. 1003.3.3.3
 Institutional I-3 occupancy 1003.3.3.10
 Open 1003.3.3.3.2
ROLL ROOFING. 1507.6
ROOF ACCESS. 1003.3.3.12.1
ROOF CONSTRUCTION
 Coverings (see ROOF COVERINGS) . . . 1609.7.2
 Deck 1609.7.1
 Draftstopping 716
 Fire resistance Table 601
 Fireblocking 716.2
 Live loads 1607.11.2
 Materials Chapter 6
 Penetration of fire resistant assemblies . . . 710.5
 Projections 1608.8
 Rain loads 1611
 Roof structures. 504.3, 1509

Slope, minimum	Chapter 15	Parapet walls	1503.3
Snow load	1603.1.3	Penthouses	1509.2
Wood (see ROOF CONSTRUCTION, WOOD)		Snow drift	1608.8
ROOF CONSTRUCTION, WOOD	602.4.5	Tanks	1509.3
Anchorage to masonry	1604.8.2, 2109.7.3.3	Towers, spires, domes and cupolas	1509.5
Attic access	1208.2	Weather protection	1503
Ceiling joists	2308.10.2	Wind resistance	1504.1, 1609.7
Diaphragms	2305.2, 2306.3.2	ROOF VENTS	1004.2.4.1
Fastening schedule	2304.9	ROOM DIMENSIONS	1207
Framing	2304.10.3, 2308.10	ROOMING HOUSE	310
Plank-and-beam	2306.1.2		
Rafters	2306.1	S	
Sheathing	2304.7, 2308.10.8	SAFEGUARDS DURING	
Trussed rafters	2308.10.7.1	CONSTRUCTION	Chapter 33
Ventilation, attic	1202.2	Construction	3302
Wind uplift	2308.10.1	Demolition	3303
ROOF COVERINGS	1507	SCHOOLS (see EDUCATIONAL OCCUPANCY)	
Asphalt shingles	1507.2	SECURITY GRILLES	1003.3.1.3.5
Built up	1507.10	SEISMIC	1614 - 1623
Clay tile	1507.3	Concrete	1910
Concrete tile	1507.3	Loads	1614 - 1620
Fire resistance	1505	Masonry	2106
Flashing	1503.2, 1507.3.9, 1507.5.6	Piers or piles	1807.2.23
Impact resistance	1504.6	Steel	2212
Insulation	1508	Ties, concrete footings	1805.4.2.2
Liquid applied coating	1507.15	Ties, pile foundation	1807.2.23
Membrane	3102	Soils investigation	1802.2.6, 1802.2.7
Metal panels	1507.4	Wood	2305, 2308.11 - 2308.12
Metal shingles	1507.5	SERVICE STATION	406.5
Modified bitumen	1507.11	SHAFT (see SHAFT ENCLOSURE AND	
Plastics, light-transmitting panels	2609	VERTICAL OPENING PROTECTION)	702
Replacement/recovering	1510.3	SHAFT ENCLOSURE (see VERTICAL	
Reroofing	1510	OPENING PROTECTION)	707
Roll	1507.6	Construction	707.11, 707.12
Single-ply	1507.12	Elevators	707.14
Slate shingles	1507.7	Fire resistance rating	707.4
Sprayed polyurethane foam	1507.14	High-rise buildings	403.3.2
Thermoplastic single-ply	1507.13	Materials	707.3
Wind loads	1504.1, 1609.7	Penetrations	707.8, 715.5.3
Wood shakes	1507.9	Refuse and laundry chutes	707.12
Wood shingles	1508.8	Required	707.2
ROOF DRAINAGE	1503.4	SHEATHING	
ROOF REPLACEMENT/RECOVERING	1510.3	Clearance from earth	2304.11.2.2
ROOF ASSEMBLIES AND ROOFTOP		Fastening	2304.9
STRUCTURES	Chapter 15	Fiberboard	2306.4.4
Cooling towers	1509.4	Floor	2304.7, 2308.8.6
Drainage	1503.4	Gypsum	2306.4.5.1.6
Fire classification	1505	Moisture protection	2304.11.2.2
Height modifications	504.3	Particleboard	2306.4.3
Impact resistance	1504.6	Roof	2304.7
Materials	1506	Roof sheathing	2308.10.8

Wall 2304.6.1, 2308.9.3
 Wood structural panels 2303.1.4, 2211.3

SHOPPING CENTERS 309

SHOTCRETE 1914

SHUTTERS, FIRE (see OPENING PROTECTIVES) 714.2

SIGNS 3107

Accessibility 1003.2.13.6, 1109

Area of refuge, accessible . . 1003.2.13.5.5, 1109.1

Covered mall building 402.14

Doors 1003.3.1.8, 1003.3.1.8.2

Elevators 62.1110

Exit 1003.2.10, 2702.2.3

Floor loads 1603.3

Occupant content, assembly 1003.2.2.5

Parking spaces 62.1110(1)

Plastic 2611

Stair identification 1005.3.2.4, 62.1110(3)

Standpipe control valve 905.7.1

SKYLIGHTS

Light, required 1204.1

Plastic 2610

Rated assemblies 710.4

SLAB, COMPOSITE STEEL DECK/CONCRETE 2205.2

SLAB ON GROUND, CONCRETE . . 1911, 2304.11.2.3

SLATE SHINGLES 1507.7

SMOKE BARRIERS 709, 715.5.4

Construction 709.4, 909.5

Doors 709.5, 714.2, 909.5.2

Duct penetration 715.5.5

Fire-resistance rating 709.3

Materials 709.2

Openings 709.5, 909.5.2

Penetrations 709.6

Required 407.4, 408.6

Transfer grilles 715.5.5

Walls 709.4

SMOKE CONTROL 909

Atrium buildings 404.4, 907.2.13

Covered mall building 402.9

High-rise 1005.3.2.5

Stages 410.3.7.2

Standby power systems 2702.2.2

Underground buildings 405.5, 907.2.19

Systems 909

SMOKE DAMPERS 715.2 - 715.5

Smoke barriers 715.5.4, 715.5.5

SMOKE DETECTORS

Atriums 404.6, 907.2.13

Covered mall 907.2.20

Elevator lobbies 907.2.18.1

High-rise buildings 403.5, 907.2.12

HPM 415.9.9

Institutional I-2 407.6

Multiple-station 907.2.10

Residential aircraft hangars 907.2.21

Residential occupancies 907.2.10.1

Single-station 907.2.10

Smoke activated doors 714.2.7.3

Special amusement buildings 411.5

Underground buildings 907.2.18

SMOKE EXHAUST SYSTEMS

Underground buildings . . 405.5, 907.2.18, 909.2.1

SMOKE VENTS 415.6, 910

SMOKEPROOF ENCLOSURES 1005.3.2.5

Design 909.20.3

SNOW LOAD 1608

Glass 2404

SOILS AND FOUNDATIONS Chapter 18

Classification 1802.3

Depth of footings 1805.2

Excavation, grading and fill 1803

Expansive 1802.3.2, 1805.8

Footings and foundations 1805

Footings on or adjacent to slopes 1805.3

Foundation walls 1805.5

Foundations, pile and pier 1807

Grading 1803.3

Investigation 1802

Investigation, pile and pier 1802.2.4

Investigation, seismic 1802.2.6, 1802.2.7

Loadbearing values 1804

Soil boring and sampling 1802.5

Soil lateral load 1610

Testing, piles 1807.2.8.3

SOUND TRANSMISSION 1206

SPECIAL CONSTRUCTION Chapter 31

SPIRAL STAIRS 1003.3.3.9

Stages 410.5.4

SPRAY-APPLIED FIRE RESISTANT MATERIALS

Steel column calculated fire resistance . . 720.5.2.2

SPRINKLER SYSTEMS, AUTOMATIC 903

Exempt locations 903.3.1.1

Substitute for fire rating Table 601(4)

SPRINKLERS, REQUIRED 903

Aircraft paint hangers 412.4

Aircraft hangars 412.2.6

Atrium building 404.3

Basements 903.2.12.1

Covered mall building 402.8

Garages 406.3.10, 903.2.10

Hazardous occupancies	903.2.4	Width	1003.3.3.1
High-rise buildings	403.2, 903.2.12.3	Winders	1003.3.3.8
Incinerator rooms	Table 302.1.1	STAIRWAY ENCLOSURE	
Laundry chutes, refuse chutes, termination rooms and incinerator rooms	707.12, 903.2.12.2	Access	1005.3.2.5.2
Multistory buildings	903.2.12.3	Construction	1005.3.2.2
Spray finishing booth	416.4	Discharge	1006.1
Supervision (see SPRINKLER SUPERVISION)	903.4	Doors, automatic closing	714.2.7
Underground buildings	405.3	Elevators within	3002.7
SPRINKLERS, SUPERVISION.	903.4	Fire resistant construction	1005.3.2
Service	901.6	Penetrations	1005.3.4
Underground buildings	405.3	Space below, use	1005.3.2.2
STAGES AND PLATFORMS	410	Ventilation	1005.3.4.2
Alternating tread stairway	410.5.4	STANDBY POWER	
Dressing rooms	410.5	Atriums	404.7
Egress	410.5.4, 1007.5	Covered mall building	402.12
Fire barrier wall	410.5.1	Elevators	3003.1
Floor finish and floor covering	804.3	Hazardous occupancy	414.5.4
Platform, temporary	410.4.1	High-rise	403.10
Platform construction	410.4	Group I-3	408.4.2
Proscenium curtain	410.3.5	Stages	410.3.7.2, 909.11
Proscenium wall	410.3.4	Underground buildings	405.9.3
Roof vents	410.3.7.1	STANDPIPE AND HOSE SYSTEMS (see STANDPIPES, REQUIRED)	905
Scenery	410.3.6	Class	
Smoke control	410.3.7.2	Dry	905.8
Special provisions		Hose connection location	905.1, 905.4 - 905.6
Sprinkler system, automatic	410.6	Locks	905.7.2
Standpipes	410.7	STANDPIPES, REQUIRED	
Ventilation	410.3.7	Assembly	905.3.3, 905.5.1
STAIRWAY (see ALTERNATING TREAD, STAIRWAY, AND STAIRWAY CONSTRUCTION, AND STAIRWAY ENCLOSURE)		Covered mall buildings	905.3.4
Exterior exitway	1005.3.6, 1006.1	During construction	905.10
Identification	1005.3.2.4	Stages	905.3.5
Width, minimum	1003.3.3.1	Underground buildings	405.11, 905.3.6
STAIRWAY CONSTRUCTION		STATE LAW	102.2
Aisle	1008.7.2	STEEL	Chapter 22
Alternating tread	1003.3.3.10	Bolting	2209
Circular	1003.3.3.7	Cables structures	2207
Elevators	3002.7	Calculated fire resistance	720.5
Enclosure under	1005.3.2.2	Cold-formed	2205, 2211
Fireblocking	716.2.4	Conditions of restraint	703.2.3
Handrails	1003.3.11	Deck/concrete composite slabs	2205.2
Headroom	1003.3.3.2	Identification and protection	2203.1
Illumination	1204.4	Joists	2206
Landings	1003.3.3.4	Lateral resistance, steel stud walls	2211
Projections	1003.3.3.11.7	Open web joist	2206
Seismic wood	2308.17	Parapet walls	1503.3
Spiral	408.3.3, 1003.3.3.9	Piles	1808.3
Treads and risers	1003.3.3.3	Reinforcement, concrete	1907
		Seismic provisions	2211 - 2213
		Storage racks	2210
		Structural	2204

INDEX

Studs/gypsum wallboard 2211.4
 Studs/wood structural panel 2211.3
 Welding 2208
STONE VENEER 1405.6
 Slab-type 1405.7
STORAGE OCCUPANCY (GROUP S) 311
 Area Chapter 5
 Automobile parking garage 406
 Hazard storage, Group S-1, moderate 311.2
 Hazard storage, Group S-2, low 311.3
 Height Chapter 5
 High piled combustible 413
 Floor loads Table 1607.1
 Interior finishes Table 803.4
 Smoke and heat vents 910.2
 Sprinkler system, automatic 903.2.11
 Travel distance increase 1004.2.4.1
STRUCTURAL DESIGN
 Aluminum Chapter 20
 Concrete Chapter 19
 Foundations Chapter 18
 Masonry Chapter 21
STRUCTURAL LOAD COMBINATIONS 1605
STRUCTURAL TESTS AND SPECIAL INSPECTIONS Chapter 17
 Material and test standards 1715
STRUCTURES, EXISTING Chapter 34
 Accessibility 3408
 Historic buildings 3406
 Maintenance 3408.2
 Unsafe 115
STUCCO 2512
SWIMMING POOL, GLASS 2406.2(9)
SWIMMING POOL, ENCLOSURES Chapter 31
 Gates, access 3109.4.1.7
 Indoor 3109.4.3
 Public 3109.3
 Residential 3109.4

T

TELEPHONE EXCHANGES CLASSIFICATION . . 304
TEMPORARY STRUCTURES 3103
 Structures 3103
TENANT SEPARATION
 Covered mall buildings 708.1
TENTS
 Temporary 2702.2.8
TERMITE, PROTECTION FROM 2304.11
TERRA COTTA 1405.8
TESTING
 Concrete 1905.6.2.4, 1905.6.5.2

Fire-resistant materials 703.2
 Glass 2406
 Smoke control, atrium buildings 909.3
 Sprinklers 904.4
 Soils 1802
 Structural Chapter 17

THEATERS (see PLATFORM, AND PROJECTION ROOMS, AND STAGES) 303

THERMAL BARRIER, FOAM PLASTIC INSULATION 2603.5.2

THERMAL-AND SOUND-INSULATING MATERIALS 718
 Cellulose loose-fill insulation 718.6
 Loose-fill insulation 718.4
 Roof insulation 718.5

THROUGH-PENETRATIONS
 Air ducts 715.6.1
 Fire barriers 706.7
 Fire rated walls 711.3.1
 Fire-rated horizontal assemblies 711.4.1
 Firestop system 711.3.1.2, 711.4.1.2

TILE
 Ceramic, (see CERAMIC TILE)
 Fire resistance, clay or shale 719.1

TOILETS
 Accessible 62.1109(2)
 Grab bars 1607.7.2
 Rooms openings 1209.5
 Unisex 62.1109(2)(c)

TOWERS
 Airport traffic control 412.1
 Construction 3108.3
 Dead load 3108.4.1
 Grounding 3108.5
 Location and access 3108.2
 Radio 3108
 Television 3108
 Wind load 3108.4.2

TOWERS, COOLING 1509.4

TOXIC MATERIALS
 Classification 307.6
 Gas detection system 908.3
 Separation 415.8.3

TRAVEL DISTANCE
 Factory-industrial occupancy, increase 1004.2.4.1
 Mall 402
 Mall tenant space 402.4.4
 Measurement 1004.2.4
 Storage occupancy, increase 1004.2.4.1

TREADS, STAIR (see STAIRWAY CONSTRUCTION)

TRUSSES
 Fire resistance 713.2.3

Materials Chapter 6
 Metal-plate-connected parallel wood 2303.4
 Trussed rafters 2308.10.7.1
TUNNELED WALKWAY 3104

U

UNDERGROUND BUILDINGS 405
 Compartmentation 405.4
 Construction type 405.2
 Elevators 405.4.3
 Emergency power loads 405.10
 Exits 405.8
 Fire alarm systems 405.6
 Fuel supply 405.9.2
 Public address 405.7
 Smokeproof enclosure 1005.3.2.5
 Smoke exhaust 405.5.2, 907.2.19
 Sprinkler system, automatic 405.3
 Standby power 405.9.3, 2702.2.15
 Standpipe system 405.11
 Voice alarms 907.2.19
UNSAFE STRUCTURES AND EQUIPMENT (see STRUCTURES, UNSAFE) 115
 Restoration 115.5
UNSTABLE MATERIALS 307.3
UNUSABLE SPACE 710.3.2
USE AND OCCUPANCY Chapter 3
 Accessory 302.2
 Incidental 302.1.1, Table 302.1.1
 Mixed 302.3
UTILITY AND MISCELLANEOUS OCCUPANCY (GROUP U) 312
 Egress illumination 1003.2.11
 Sprinkler system, automatic 903.2.12

V

VAPOR RETARDER 1403.3
VEHICLE SHOW ROOMS 304
VENEER
 Glass 1405.11
 Cement plaster 1405.14
 Masonry, adhered 1405.9
 Masonry, anchored 1405.5
 Metal 1405.10
 Plastic 2605
 Seismic coefficient Table 1621.2
 Vinyl 1405.13
 Wood 1405.4
VENTILATION (see MECHANICAL)
 Atrium
 Attic 1202.2, 2308.10.10

Bathrooms 1202.4.2.1
 Crawl space 1202.3
 Elevator hoistways 3004
 Enclosed parking garages 406.4.2
 Exit enclosure 1005.3.4.2
 Exhaust, hazardous 1202.5
 Exhaust, HPM 415.9.10.2
 Fabrication areas, HPM 415.9.2.6
 Hazardous, storage and dispensing 414.3
 High-rise 1005.3.2.5
 HPM Service Corridors 415.9.4.3
 Mechanical 1202.1
 Natural 1202.4
 Projection rooms 409.3
 Repair garages 406.6.3
 Smokeproof enclosures 909.20.3, 909.20.5
 Stages 410.3.7
 Under-floor ventilation 1202.3

VENTS, PENETRATION PROTECTION 711

VERMICULITE, FIRE RESISTANT 719

VERTICAL OPENING PROTECTION

Atriums 404.5
 Duct penetrations 715.1
 Elevators 707.14
 Institutional I-3 occupancy 408.5
 Shaft enclosure 707

VESTIBULES, EXIT DISCHARGE 1006.1

VINYL

Expanded 802, 803.6
 Rigid 1405.13

VOICE ALARM (see also ALARMS, VOICE)

Amusement buildings, special 411.6
 Covered mall buildings 402.13
 High-rise buildings 907.2.12
 Underground buildings 907.2.19.1

W

WALKWAY, COVERED, ENCLOSED AND TUNNELED WALLBEARING 3104

Fire resistance Table 601
 Materials per construction type Chapter 6
 Opening protection 714

WALL, EXTERIOR 704

Bearing Chapter 6
 Coverings 1405
 Fire-resistance ratings 704.5, 706, 1403.5
 Flashing, veneered walls 1405.3
 Foam plastic insulation 2603.4.1.4, 2603.5
 Light-transmitting plastic panels 2607
 Materials 704.4, 1406
 Nonbearing Chapter 6

INDEX

Opening protection	704	WIND LOAD	1609
Projections	704.2	Exposure category	1609.4
Structural stability	704.6	Glass	2404.1
Vapor retarder	1403.3	Glass block	2110.3.1
Veneer (see Veneer)	1405.4, 1405.5, 1405.6, 1405.10	Roofs	1504.1, 1609.7, 2308.10.1
Weather resistance	1403.2, 1405.2	Wind-borne debris	1609.1.4
Weather resistant barriers	1405.2	WINDERS, STAIR (see STAIRWAY CONSTRUCTION)	
WALL, FIRE (see FIRE WALL)		WINDOW	1003.3.3.8
WALL, FIRE RESISTANT, PENETRATIONS.	711.3	Emergency egress	1009
WALL, FOUNDATION	1805.5	Fire (see OPENING PROTECTIVES)	714.3.6, 714.3.7
WALL, INTERIOR		Glass (see GLASS)	1405.12
Opening protection	714	Operable	62.1109(13)(b)
WALL, INTERIOR NONBEARING (see PARTITION)		Required, light and ventilation	1204.2
WALL, MASONRY		Wells	1009.5
Lateral stability	2109.2	WIRES, PENETRATION PROTECTION	711
Lateral support	2109.4, 2106	WOOD	Chapter 23
Shear	2109.2.1.2	Assemblies, calculated fire resistance	720.6
Wood contact	2304.11.2.3, 2304.11.2.4	Bracing, walls	2308.9.3
WALL, PARAPET	704.11, 1503.3, 2109.5.5	Ceiling framing	2308.10
WALL, PARTY (see FIRE WALLS)	705.1	Connections and fasteners	2304.9
Fire resistance	705	Contacting concrete, masonry, or earth	2304.11.4
WALL, RETAINING	Chapter 18, 2304.11.7	Decay, protection against	2304.11
WALL, VENEERED (see VENEER)	Chapter 14	Diaphragms	1620.2, 2306.3
WALL, WOOD CONSTRUCTION		Draftstopping	716.3, 716.4
Bracing	2308.9.3	End-jointed lumber	2303.1.1
Cutting, notching, boring	2308.9.10	Fiberboard	2303.1.5, 2306.4.4
Exterior framing	2308.9	Fire retardant treated	2303.2
Fastening schedule	2304.9	Fireblocking	716.2
Framing	2304.3, 2308.9.2	Floor and roof framing (see FLOOR CONSTRUCTION, WOOD)	2304.4
Interior bearing partition	2308.9.1	Floor sheathing	2304.7
Interior nonbearing partition	2308.9.2.3	Foundation	1805.4.6, 2308.3.3.1
Opening, framing	2308.9	Grade, lumber	2303.1.1
Seismic provisions	2305, 2306, 2308	Hardboard	2303.1.6
Shear walls	2305.3, 2306.2	Heavy timber construction	2304.10
Sheathing (see SHEATHING)		Hurricane shutters	1609.1.4
Studs	2306.2, 2308.9.1	I-joint	2303.1.2
Top plates	2308.9.2.1	Lateral force-resisting systems	2305
WATER-REACTIVE MATERIALS.	Table 307.7(1)	Light-frame construction, conventional	2308
WEATHER, COLD		Load and resistance factor design	2307
Concrete construction	1905.12	Moisture content	2303.1.8.2, 2303.2.5
Masonry construction	2104.3	Nails and staples	2303.6
WEATHER, HOT		Particleboard shear walls	2306.4.3
Concrete construction	1905.13	Plywood, hardwood	2303.3
Masonry construction	2104.4	Preservative treated	1403.6, 2303.1.8
WEATHER PROTECTION		Roof framing (see ROOF CONSTRUCTION, WOOD)	2304.4
Exterior walls	1405.2	Roof sheathing	2304.7
Roofs	1503	Seismic provisions	2305, 2306 2308.11 - 2308.12.9
WEEPHOLES	2104.1.8		
WIND BORNE DEBRIS.	1609.1.4		

Shear walls 2305.3, 2306.4
Standards and quality, minimum 2303
Stress design, allowable 2306
Structural panels 2303.1.4
Supporting masonry 2304.12
Termite, protection against 2304.11
Trusses 2303.4,
2308.10.7
Veneer Chapter 14
Wall framing (see WALLS, WOOD
CONSTRUCTION) 2304.3
Wall sheathing 2304.6
Wood supporting masonry or concrete . . 2304.12
Wind provisions 2306.2
WOOD SHINGLES AND SHAKES 1505.6,
1507.8, 1507.9
WOOD STRUCTURAL PANELS
(see WOOD) 2303.1.4
Steel stud 2211.3

Y

YARDS OR COURTS 704.3, 1205

