

# ARTICLE II.

## BUILDING CODE

### Section 11-17. Adopted.

The International Building Code, 2006 edition, including Appendix C and Appendix I as published by the International Code Council Inc., and amendments and additions thereto as provided in this article, are hereby adopted as the Building Code by the city for regulating the erection, construction, enlargement, alteration, repair, moving, removal, demolition, conversion, occupancy, equipment, use, height, area, and maintenance of all buildings and structures in the city and providing for the issuance of permits and collection of fees therefore. The minimum building standards in the 2006 edition of the International Building Code and amendments thereto shall be applied to any building permit issued after May 31, 2007.

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A printed copy as amended is on file with the City Clerk.

### Section 11-20. Amendments, additions, and deletions to the 2006 International Building Code.

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*The following sections and subsections of the residential building code adopted in this article shall be amended, added, or deleted as follows. All other sections or subsections of the 2006 International Building Code shall remain the same.*

**101.1 Title.** These regulations shall be known as the *Building Code* of the City of Sioux Falls, South Dakota, hereinafter referred to as “this code.”

**101.2 Scope.** The provisions of this code shall apply to the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, maintenance, removal and demolition of every building or structure or any appurtenances connected or attached to such buildings or structures.

#### Exceptions:

1. Detached one- and two-family dwellings and multiple single-family dwellings (town houses) not more than three stories above grade plane in height with a separate means of egress and their accessory structures shall comply with the *International Residential Code*.
2. Existing buildings undergoing repair, alterations, or additions and change of occupancy shall be permitted to comply with the *International Existing Building Code* as an alternate to Chapter 34, Existing Structures.

**101.4.1 Electrical.** The provisions of the *Electrical Code* shall apply to the installation of electrical systems, including alterations, repairs, replacement, equipment, appliances, fixtures, fittings, and appurtenances thereto.

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**101.4.4 Plumbing.** The provisions of the *Plumbing Code* shall apply to the installation, alteration, repair, and replacement of plumbing systems, including equipment, appliances, fixtures, fittings, and appurtenances, and where connected to a water or sewage system and all aspects of a medical gas system.

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**103.1 Enforcement agency.** Building Services is hereby created and the official in charge thereof shall be known as the building official.

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**103.2 Appointment.** Delete.

Deleted: The Department of Building Safety is hereby created and the official in charge thereof shall be known as the building official

**104.8 Liability.** The building official, member of the board of appeals, or employee charged with the enforcement of this code, while acting for the jurisdiction in good faith and without malice in the discharge of the duties required by this code or other pertinent law or ordinance, shall not thereby be rendered liable personally and is hereby relieved from personal liability for any damage accruing to persons or property as a result of any act or by reason of an act or omission in the discharge of official duties. Any suit instituted against an officer or employee because of an act or omission performed by that officer or employee in the lawful discharge of duties and under the provisions of this code shall be afforded all the protection provided by the City's insurance pool and any immunities and defenses provided by other applicable state and federal laws.

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This code shall not be construed to relieve or lessen the responsibility of any person owning, operating, or controlling any building or structure for any damages to persons or property caused by defects, nor shall the city, its officers and employees be held as assuming any such liability by reason of the inspections authorized by this code or any permits or certificates issued under this code.

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**105.1 Required.** Any owner or authorized agent who intends to construct, enlarge, alter, repair, move, demolish, or change the occupancy of a building or structure, or to erect, install, enlarge, alter, repair, remove, convert, or replace any electrical, gas, mechanical, or plumbing system, the installation of which is regulated by this code, or to cause any such work to be done, shall first make application to the building official and obtain the required permit. The building official may exempt permits for minor work.

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A building permit shall be issued for an owner-occupied one- or two-family dwelling, including town houses and accessory buildings, only to the owner or a city-licensed residential contractor.

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**105.2 Work exempt from permit.** Exemptions from permit requirements of this code shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinances of this jurisdiction. Permits shall not be required for the following:

**Building:**

1. One-story detached accessory structures used as tool and storage sheds, playhouses, and similar uses, provided the floor area does not exceed 200 square feet (18.58 m<sup>2</sup>). A placement permit in accordance with the zoning ordinance is required.
2. Fences not over 6 feet (1,829 mm) high. A fence permit in accordance with the zoning ordinance is required.
3. Oil derricks.
4. Retaining walls that are not over 4 feet (1,219 mm) in height measured from the bottom grade elevation, to the top of the wall, unless supporting a surcharge or impounding Class I, II, or IIIA liquids.
5. Water tanks supported directly on grade if the capacity does not exceed 5,000 gallons (18,925 L) and the ratio of height to diameter or width does not exceed 2:1.
6. Sidewalks and driveways not more than 30 inches (762 mm) above adjacent grade, and not over any basement or story below and are not part of an accessible route.
7. Painting, papering, tiling, carpeting, cabinets, counter tops, and similar finish work.
8. Temporary motion picture, television, and theater stage sets and scenery.
9. Prefabricated swimming pools accessory to a Group R-3 occupancy that are less than 18 inches (457 mm) deep.
10. Shade cloth structures constructed for nursery or agricultural purposes, not including service systems.
11. Swings and other playground equipment accessory to detached one- and two-family dwellings.
12. Window awnings supported by an exterior wall that do not project more than 54 inches (1,372 mm) from the exterior wall and do not require additional support of Group R-3 and U occupancies.
13. Non-fixed and movable fixtures, cases, racks, counters, and partitions not over 5 feet 9 inches (1,753 mm) in height.

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**Electrical:**

**Repairs and maintenance:** Minor repair work, including the replacement of lamps or the connection of approved portable electrical equipment to approved permanently installed receptacles.

**Radio and television transmitting stations:** The provisions of this code shall not apply to electrical equipment used for radio and television transmissions, but do apply to equipment and wiring for a power supply and the installation of towers and antennas.

**Temporary testing systems:** A permit shall not be required for the installation of any temporary system required for the testing or servicing of electrical equipment or apparatus.

**Gas:**

1. Portable heating appliance.
2. Replacement of any minor part that does not alter approval of equipment or make such equipment unsafe.

**Mechanical:**

1. Portable heating appliance.
2. Portable ventilation equipment.
3. Portable cooling unit.
4. Steam, hot, or chilled water piping within any heating or cooling equipment regulated by this code.
5. Replacement of any part that does not alter its approval or make it unsafe.
6. Portable evaporative cooler.
7. Self-contained refrigeration system containing 10 pounds (5 kg) or less of refrigerant and actuated by motors of 1 horsepower (746 W) or less.

**Plumbing:**

1. The stopping of leaks in drains, water, soil, waste or vent pipe, provided, however, that if any concealed trap, drain pipe, water, soil, waste or vent pipe becomes defective and it becomes necessary to remove and replace the same with new material, such work shall be considered as new work and a permit shall be obtained and inspection made as provided in this code.
2. The clearing of stoppages or the repairing of leaks in pipes, valves, or fixtures and the removal and reinstallation of water closets, provided such repairs do not involve or require the replacement or rearrangement of valves, pipes, or fixtures

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**107.1 General.** The building official is authorized to issue a permit for temporary structures and temporary uses. Such permits shall be limited as to time of service, but shall not be permitted for more than 365 days. Extensions beyond 365 days are not allowed.

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Structures used as a temporary business office shall be provided with an accessible route that meets accessibility requirements of this code.

**107.3 Temporary power.** The building official is authorized to give permission to temporarily supply and use power in part of an electric installation before such installation has been fully completed and the final certificate of completion has been issued. The part covered by the temporary certificate shall comply with the requirements specified for temporary lighting, heat, or power in the Electrical Code.

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**108.2 Schedule of permit fees.** On buildings, structures, electrical, gas, mechanical, and plumbing systems or alterations requiring a permit, a fee for each permit or inspection shall be paid as required. The fee schedules for the issuance of a building permit shall be as follows:

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**Table No. 1-A. Residential Building Permit Fees**

**Table No. 1-A  
 Residential Building Permit Fees  
 Group R Division 3 and Accessory Group U Occupancies**

Total Valuation	Fee
\$1.00 to \$1,100.00	\$20.00
\$1,101.00 to \$2,000.00	For valuation in excess of \$1,100.00, \$10.00 for the first \$500.00, plus \$1.50 for each additional \$100.00 or fraction thereof, to and including \$2,000.00
\$2,001.00 to \$25,000.00	\$32.50 for the first \$2,000.00, plus \$6.00 for each additional \$1,000.00 or fraction thereof, to and including \$25,000.00
\$25,001.00 to \$50,000.00	\$170.50 for the first \$25,000.00, plus \$4.50 for each additional \$1,000.00 or fraction thereof, to and including \$50,000.00
\$50,001.00 to \$100,000.00	\$283.00 for the first \$50,000.00, plus \$3.00 for each additional \$1,000.00 or fraction thereof, to and including \$100,000.00
\$100,000.00 and up	\$433.00 for the first \$100,000.00, plus \$2.50 for each additional \$1,000.00 or fraction thereof

**Table No. 1-B. Commercial Building Permit Fees**

**Commercial Building Permit Fees  
 Groups A, B, E, F, H, I, M, S, Group R Division 1 and Division 2  
 (Including Group U Accessory to the R-1, R-2, and R-4 Occupancies)**

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Total Valuation	Fee
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\$1.00 to \$700.00	\$20.00
\$700.01 to \$2,000.00	For values in excess of \$700.00, \$15.00 for the first \$500.00, plus \$2.00 for each additional \$100.00 or fraction thereof, to and including \$2,000.00
\$2,000.01 to \$25,000.00	\$45.00 for the first \$2,000.00, plus \$9.00 for each additional \$1,000.00 or fraction thereof, to and including \$25,000.00
\$25,001 to \$50,000.00	\$252.00 for the first \$25,000.00, plus \$6.50 for each additional \$1,000.00 or fraction thereof, to and including \$50,000.00
\$50,001.00 to \$100,000.00	\$414.50 for the first \$50,000.00, plus \$4.50 for each additional \$1,000.00 or fraction thereof, to and including \$100,000.00
\$100,001.00 to \$500,000.00	\$639.50 for the first \$100,000.00, plus \$3.50 for each additional \$1,000.00 or fraction thereof, to and including \$500,000.00
\$500,001.00 and up	\$2,039.50 for the first \$500,000.00, plus \$3.00 for each additional \$1,000.00 or fraction thereof

**Table No. 1-C. Other Inspections and Fees**

1. Inspection outside of normal business hours, per hour* (minimum charge—one hour).....	\$70.00
2. Reinspection fees, per hour* (minimum charge—one hour).....	\$70.00
3. Inspections for which no fee is specifically indicated, per hour* (minimum charge—one-half hour).....	\$70.00
4. Additional plan review required by changes, additions, or revisions to approved plans, per hour* (minimum charge—one-half hour).....	\$70.00
*Or the total hourly cost to the jurisdiction, whichever is the greater. This cost shall include supervision, overhead, equipment, hourly wages, and fringe benefits of the employees involved.	
5. Wrecking (razing) permit.....	\$20.00
6. Swimming pool fence enclosures .....	\$20.00
7. Residential reshingle.....	\$20.00
8. Residential re-side (Group R and U occupancies).....	\$20.00
9. Residential window replacements with no structural modifications (Group R and U occupancies).....	\$20.00

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10. Board of appeals fees. Before the board takes any action, the party or parties requesting such hearing shall deposit with the secretary of the board or authorized agent, \$65.00 to cover the approximate cost of the procedure. Under no condition shall said sum or any part thereof be refunded for failure of said request to be approved.

**Exception.** Appeals referred to the board from the International Property Maintenance Code.

11. A mileage fee based on the current rate per mile authorized by the Internal Revenue Service shall be charged for any inspection occurring outside city limits.

12. Residential contractor's license examination fee.....\$75.00

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13. When submittal documents are required by Section 106, a plan review fee shall be paid when it is deemed that a plan review is required. Said plan review fee shall be 25 percent of the building permit fee as specified on Table 1-B. The plan review fee specified herein is a separate fee from the building permit fee and is in addition to the building permit fee. When submittal documents are incomplete or changed so as to require additional plan review or when a project involves deferred submittals as defined in Section 106.3.4.2, an additional plan review fee may be charged at 15 percent of the building permit fee specified on Table 1-B.

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**Exception:** Group R Division 3 and Group U occupancies.

108.7 Delinquent accounts. The city may refuse to issue permits or conduct inspections for any person or business whose account is delinquent.

**109.3.1 Footing inspection.** Footing and foundation inspections shall be made after excavations for footings are complete and any required reinforcing steel is in place. If an inspection is required for concrete foundations, any required forms shall be in place prior to inspection. Materials for the foundation shall be on the job, except where concrete is ready-mixed in accordance with ASTM C 94 the concrete need not be on the job.

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**110.2 Certificate issued.** After the building official inspects the building or structure and finds no violations of the provisions of this code or other laws that are enforced by the building official the building official shall issue a certificate of occupancy that contains the following:

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1. The building permit number.
2. The address of the structure.

3. A statement that the described portion of the structure has been inspected for compliance with the requirements of this code for the occupancy and division of occupancy and the use for which the proposed occupancy is classified.

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¶  
4. A description of that portion of the structure for which the certificate is issued.¶

4. The name of the building official.

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- 5. The edition of the code under which the permit was issued. Deleted: 7
- 6. The use and occupancy, in accordance with the provisions of Chapter 3. Deleted: 8
- 7. The type of construction as defined in Chapter 6. Deleted: 9
- 8. The design occupant load in assembly occupancies. Deleted: 10
- 9. If an automatic sprinkler system is provided, whether the sprinkler system is required. Deleted: 11
- 10. Any special stipulations and conditions of the building permit. Deleted: 12

**112.1 General.** There shall be and is hereby created a board of appeals and examiners, to hear and decide appeals of orders, decisions, or determinations made by the building official, the assistant director of building services, and the fire code official relative to the application and interpretation of this code and the fire code, to review all prospective changes to the respective codes and to submit recommendations to the responsible official and the city council, to approve permits for house moves, to examine applicants for licensing, and to investigate matters brought before the board. Members shall be appointed by the mayor with the advice and consent of the city council and shall hold office for three-year terms. The board shall adopt rules of procedure for conducting its business and shall render all decisions in writing to the appellant with a duplicate copy to Building Services.

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**112.2 Limitations on authority.** An application for appeal shall be based on a claim that the true intent of this code or the rules legally adopted thereunder have been incorrectly interpreted, the provisions of this code do not fully apply, or an equally good or better form of construction is proposed. The board shall have no authority relative to the administrative provisions of this code nor shall the board be empowered to waive requirements of this code.

**113.3 Prosecution of violation.** If the notice of violation is not complied with in the time prescribed by such notice, the building official is authorized to request the legal counsel of the jurisdiction to deem the violation as a strict liability offense and institute the appropriate proceeding at law or in equity to restrain, correct, or abate such violation, or to require the removal or termination of the unlawful occupancy of the building or structure in violation of the provisions of this code or of the order or direction made pursuant thereto.

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**SECTION R202-DEFINITIONS.** Add the following definition.

**STRICT LIABILITY OFFENSE.** An offense in which the prosecution in a legal proceeding is not required to prove criminal intent as a part of its case. It is enough to prove that the defendant either did an act which was prohibited, or failed to do an act which the defendant was legally required to do.

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**305.2 Daycare.** The use of a building or structure, or portion thereof, for educational, supervision, or personal care services for more than 12 children older than 2 1/2 years of age, shall be classified as a Group E occupancy. Deleted: five

**308.3.1 Child care facility.** A child care facility that provides care on a 24-hour basis to more than 12 children 2 1/2 years of age or less shall be classified as Group I-2.

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**308.5.2 Child care facility.** A facility that provides supervision and personal care on less than a 24-hour basis for more than 12 children 2 1/2 years of age or less shall be classified as Group I-4.

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**Exception:** A child day care facility that provides care for more than 5 but no more than 100 children 2 1/2 years or less of age, when the rooms where such children are cared for are located on the level of exit discharge and each of these child care rooms has an exit door directly to the exterior, shall be classified as Group E.

**402.10 Kiosks.** Kiosks and similar structures (temporary or permanent) shall meet the following requirements:

1. Combustible kiosks or other structures shall not be located within the mall unless constructed of any of the following materials:

1.1. Fire-retardant-treated wood complying with Section 2303.2.

1.2. Foam plastics having a maximum heat release rate not greater than 100 kW (105 Btu/h) when tested in accordance with the exhibit booth protocol in UL 1975.

1.3. Aluminum composite material (ACM) having a flame spread index of not more than 25 and a smoke-developed index of not more than 450 when tested as an assembly in the maximum thickness intended for use in accordance with ASTM E 84.

2. ~~The top of kiosks or similar structures located within the mall shall be open and accessible to the automatic fire-extinguishing system, or the kiosk shall be provided with approved fire suppression and detection devices.~~

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3. ~~There shall be maintained an unobstructed access space of not less than 10 feet (3,048 mm) between temporary or permanent kiosks and all other amenities, and there shall be maintained an unobstructed access width of not less than 10 feet (4,572 mm) parallel and adjacent to the mall storefronts. The mallway shall be of sufficient width to accommodate the occupant load immediately tributary thereto.~~

Deleted: The minimum horizontal separation between kiosks or groupings thereof and other structures within the mall shall be 20 feet (6096 mm).

4. ~~The total number of kiosks shall not exceed more than one for each 10,000 square feet (929 square meters) of mallway area.~~

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5. Each kiosk or similar structure or groupings thereof shall have a maximum area of 300 square feet (28 m2).

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**403.3 Reduction in fire-resistance rating.** ~~Delete.~~

**403.3.1 Type of construction. Delete.**

**403.3.2 Shaft enclosures. Delete.**

**406.1.4 Separation. Separations shall comply with the following:**

1. The private garage shall be separated from the dwelling unit and its attic area by means of a minimum 1/2-inch (12.7 mm) gypsum board applied to the garage side. Garages beneath habitable rooms shall be separated from all habitable rooms above by not less than a 5/8-inch Type X gypsum board or equivalent. Door openings between a private garage and the dwelling unit shall be equipped with either solid wood doors or solid or honeycomb core steel doors not less than 1 3/8 inches (34.9 mm) thick, or doors in compliance with Section 715.4.3. Openings from a private garage directly into a room used for sleeping purposes shall not be permitted.
2. Ducts in a private garage and ducts penetrating the walls or ceilings separating the dwelling unit from the garage shall be constructed of a minimum 0.019-inch (0.48 mm) sheet steel and shall have no openings into the garage.
3. A separation is not required between a Group R-3 and U carport, provided the carport is entirely open on two or more sides and there are not enclosed areas above.

**[F] 501.2 Address numbers.** Buildings shall have approved address numbers, building numbers, or approved building identification placed in a position that is plainly legible and visible from the street or road fronting the property. These numbers shall contrast with their background. Address numbers shall be Arabic numerals or alphabetical letters. Numbers shall be a minimum of 4 inches (102 mm) high with a minimum stroke width of 0.5 inch (12.7 mm).

Multi-building campus/complex developments addressed on private or public streets shall be provided with signage at the entrance to the campus/complex indicative of the address ranges within.

**509.6 Group R-2 buildings of Type IIA construction. Delete.**

**717.4.2 Groups R-1 and R-2.** Draftstopping shall be provided in attics, mansards, overhangs, or other concealed roof spaces of Group R-2 buildings with three or more dwelling units and in all Group R-1 buildings. Draftstopping shall be installed above, and in line with, sleeping unit and dwelling unit separation walls that do not extend to the underside of the roof sheathing above.

**Exceptions:**

1. Where corridor walls provide a sleeping unit or dwelling unit separation, draftstopping shall only be required above one of the corridor walls.

**Deleted:** The following reductions in the minimum construction type allowed in Table 601 shall be allowed as provided in Section 403.3.3:

¶  
1. For buildings not greater than 420 feet (128 m) in height, Type IA construction shall be allowed to be reduced to Type IB.¶

¶  
**Exception:** The required fire-resistance rating of columns supporting floors shall not be allowed to be reduced.¶

¶  
2. In other than Groups F-1, M and S-1, Type IB construction shall be allowed. [1]

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**Deleted:** Doors shall be self-closing and self-latching.

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2. Draftstopping is not required in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.
3. In occupancies in Groups R-1 and R-2 that do not exceed four stories in height, the attic space shall be subdivided by draftstops into areas not exceeding 3,000 square feet (279 m2) and shall be in line with the walls separating individual dwelling units and guest rooms from each other and from other uses provided system heat detection is installed within the attic space in accordance with the Building Code and Fire Code.

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4. Draftstopping is not required in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.2, provided that automatic sprinklers are also installed in the combustibile concealed spaces.

**[F] 903.2.5 Group I.** An automatic sprinkler system in accordance with 905.3.1.1 shall be provided throughout buildings with a Group I fire area.

**[F] 903.2.7 Group R.** An automatic sprinkler system installed in accordance with Section 903.3 shall be provided throughout all buildings with a Group R-1 or a Group R-4 fire area with more than eight occupants. An automatic fire-extinguishing system shall be provided throughout all buildings with a Group R-2 fire area where more than two stories in height, including basements, or having more than 16 dwelling units.

**Deleted: Exception:** An automatic sprinkler system installed in accordance with Section 903.3.1.2 or 903.3.1.3 shall be allowed in Group I-1 facilities.¶

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

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1. Any room where the application of water, or flame and water, constitutes a serious life or fire hazard.
2. Any room or space where sprinklers are considered undesirable because of the nature of the contents, when approved by the fire code official. Such rooms shall be separated from the remainder of the building by walls and floor/ceiling or roof/ceiling assemblies having a fire-resistance rating of not less than 2 hours.
3. Generator and transformer rooms separated from the remainder of the building by walls and floor/ceiling or roof/ceiling assemblies having a fire-resistance rating of not less than 2 hours.
4. In rooms or areas that are of noncombustible construction with wholly noncombustible contents.

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[F] **904.11 Commercial cooking systems.** The automatic fire-extinguishing system for commercial cooking systems shall be of a type recognized for protection of commercial cooking equipment and exhaust systems of the type and arrangement protected. Systems shall be installed to include cooking surfaces, deep-fat fryers, griddles, upright broilers, char broilers, range tops, broasters, and grills. Protection shall also be provided for the enclosed plenum space within the hood above the filters and exhaust ducts serving the hood.

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**Exception:** The requirement for protection does not include steam kettles and steam tables or equipment, which as used do not create grease-laden vapors.

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Preengineered automatic dry- and wet-chemical extinguishing systems shall be tested in accordance with UL 300 and listed and labeled for the intended application. Other types of automatic fire-extinguishing systems shall be listed and labeled for specific use as protection for commercial cooking operations. The system shall be installed in accordance with this code, its listing, and the manufacturer's installation instructions. Automatic fire-extinguishing systems of the following types shall be installed in accordance with the referenced standard indicated, as follows:

1. Carbon dioxide extinguishing systems, NFPA 12.
2. Automatic sprinkler systems, NFPA 13.
3. Foam-water sprinkler system or foam-water spray systems, NFPA 16.
4. Dry-chemical extinguishing systems, NFPA 17.
5. Wet-chemical extinguishing systems, NFPA 17A.

**Exception:** Factory-built commercial cooking recirculating systems that are tested in accordance with UL 710B and listed, labeled, and installed in accordance with Section 304.1 of the *International Mechanical Code*.

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[F] **904.11.2 System interconnection.** The actuation of the fire suppression system shall automatically shut down the fuel and/or electrical power supply to the cooking equipment and all electrical receptacles located beneath the hood. The fuel and electrical supply reset shall be manual.

[F] **907.2.2 Group B.** A manual fire alarm system shall be installed in Group B occupancies having an occupant load of 500 or more persons, more than 100 persons above or below the lowest level of exit discharge, or having more than two occupied levels.

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**Exception:** Manual fire alarm boxes are not required where the building is equipped throughout with an automatic sprinkler system and the alarm notification appliances will activate upon sprinkler water flow.

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[F] 907.2.3 Group E. A manual fire alarm system shall be installed in Group E occupancies. When automatic sprinkler systems or smoke detectors are installed, such systems or detectors shall be connected to the building fire alarm system.

**Exceptions:**

1. Manual fire alarm boxes are not required in Group E occupancies where all the following apply:

1.1. Interior corridors are protected by smoke detectors with alarm verification.

1.2. Auditoriums, cafeterias, gymnasiums, and the like are protected by heat detectors or other approved detection devices.

1.3. Shops and laboratories involving dusts or vapors are protected by heat detectors or other approved detection devices.

1.4. Off-premises monitoring is provided.

1.5. The capability to activate the evacuation signal from a central point is provided.

1.6. In buildings where normally occupied spaces are provided with a two-way communication system between such spaces and a constantly attended receiving station from where a general evacuation alarm can be sounded, except in locations specifically designated by the fire code official.

2. Manual fire alarm boxes shall not be required in Group E occupancies where the building is equipped throughout with an approved automatic sprinkler system, the notification appliances will activate on sprinkler water flow, and manual activation is provided from a normally occupied location.

[F] 907.2.6.2 Group I-2. Corridors in hospitals, nursing homes (both intermediate care and skilled nursing facilities), detoxification facilities, and spaces permitted to be open to the corridors by Section 407.2 shall be equipped with an automatic fire detection system.

**Exception:** Corridor smoke detection is not required in smoke compartments that contain patient sleeping units where patient sleeping units are provided with smoke detectors that comply with UL 268. Such detectors shall provide a visual display on the corridor side of each patient sleeping unit and an audible and visual alarm at the nursing station attending each unit.

[F] 907.2.8.2 Automatic fire alarm system. An automatic fire alarm system shall be installed throughout all interior corridors serving sleeping units and at the top of each enclosed stairwell.

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Deleted: 2. Corridor smoke detection is not required in smoke compartments that contain patient sleeping units where patient sleeping unit doors are equipped with automatic door-closing devices with integral smoke detectors on the unit sides installed in accordance with their listing, provided that the integral detectors perform the required alerting function.¶

**Exception:** An automatic fire detection system is not required in buildings that do not have interior corridors serving sleeping units and where each sleeping unit has a means of egress door opening directly to an exterior exit access that leads directly to an exit.

[F] **907.2.8.3 Smoke alarms.** Smoke alarms shall be installed as required by Section 907.2.10. In buildings that are not equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2, the smoke alarms in sleeping units shall be connected to an emergency electrical system and shall be annunciated by sleeping unit at a constantly attended location from which the fire alarm system is capable of being manually activated. Smoke detection installed as part of an intelligent or addressable fire alarm system capable of annunciation of room origin at a constantly attended location from which manual activation can occur shall be acceptable.

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[F] **907.2.8.4 Heat detectors.** Heat detectors shall be installed in each attic subdivision and in all common areas such as recreation rooms, laundry rooms, furnace rooms, and similar areas.

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**Exception:** Heat detection is not required in areas protected by an automatic fire-extinguishing system installed in accordance with 903.3.1.1 or 903.3.1.2.

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[F] **907.2.9 Group R-2.** A manual and automatic fire alarm system shall be installed in Group R-2 occupancies where:

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1. Any dwelling unit or sleeping unit is located three or more stories above the lowest level of exit discharge.
2. Any dwelling unit or sleeping unit is located more than one story below the highest level of exit discharge of exits serving the dwelling unit or sleeping unit.
3. The building contains more than 16 dwelling units or sleeping units or four or more units above the level of exit discharge.

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**Exceptions:**

1. A fire alarm system is not required in buildings not more than two stories in height where all dwelling units or sleeping units and contiguous attic and crawl spaces are separated from each other and public or common areas by at least 1-hour fire partitions and each dwelling unit or sleeping unit has an exit directly to a public way, exit court, or yard.
2. Manual fire alarm boxes are not required throughout the building when the following conditions are met:
  - 2.1. The building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or Section 903.3.1.2.
  - 2.2. The notification appliances will activate upon sprinkler flow.

3. A fire alarm system is not required in buildings that do not have interior corridors serving dwelling units and are protected by an approved automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2, provided that dwelling units either have a means of egress door opening directly to an exterior exit access that leads directly to the exits or are served by open-ended corridors designed in accordance with Section 1023.6, Exception 4.

**907.2.9.1 Heat detectors.** Heat detectors shall be installed in each living unit, attic subdivision, any attached garages, and in all common areas such as recreation rooms, laundry rooms, furnace rooms, and similar areas. Living unit heat detectors shall consist of, at minimum, one 135-degree, fixed-rate-of-rise type detector, centrally located within each living unit.

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**Exception:** Heat detection is not required in areas protected by an automatic fire-extinguishing system installed in accordance with 903.3.1.1 or 903.3.1.2.

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**907.2.9.2 Smoke detectors.** System smoke detection shall be provided in each stairway and all exit corridors.

[F] **907.11 Duct smoke detectors.** Duct smoke detectors shall be connected to the building's fire alarm control panel when a fire alarm system is provided. Activation of a duct smoke detector shall initiate a visible and audible supervisory signal at a constantly attended location. Duct smoke detectors shall not be used as a substitute for required open-area detection. Duct smoke detectors installed more than ten feet above a finished floor, above a ceiling, or on a rooftop shall be installed with remote test/indicators in an approved location below and in proximity to the unit served.

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**Exception:** The supervisory signal at a constantly attended location is not required where duct smoke detectors activate the building's alarm notification appliances.

[F] **912.2.1 Visible location.** Fire department connections shall be located on the street side of buildings, fully visible and recognizable from the street or nearest point of fire department vehicle access or as otherwise approved by the fire code official. A weather rated horn/strobe connected to the fire detection or sprinkler system shall be located not lower than eight feet above the fire department connection and within ten feet horizontally of the connection. The weather rated horn/strobe must be visible from the fire lane or street.

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**TABLE 1005.1  
EGRESS WIDTH PER OCCUPANT SERVED**

Occupancy	Without Sprinkler System		With Sprinkler System (a)	
	Stairways (inches per occupant)	Other Egress Components (inches per	Stairways (inches per occupant)	Other Egress Components (inches per

		occupant)		occupant)
Other than those listed below	0.3	0.2	0.2	0.15
<b>Assembly: Group A</b>	<b>0.3</b>	<b>0.2</b>	<b>0.3</b>	<b>0.2</b>
Hazardous: H-1, H-2, H-3, and H-4	0.7	0.4	0.3	0.2
Institutional: I-2	NA	NA	0.3	0.2

For SI: 1 inch = 25.4 mm. NA = Not applicable.

(a) Buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2.

**1008.1.6 Thresholds.** Thresholds at doorways shall not exceed 0.75 inch (19.1 mm) in height for sliding doors serving dwelling units or 0.5 inch (12.7 mm) for other doors.

Raised thresholds and floor level changes greater than 0.25 inch (6.4 mm) at doorways shall be beveled with a slope not greater than one unit vertical in two units horizontal (50-percent slope).

**Exception:** The threshold height shall be limited to 8 inches (203 mm) where the occupancy is Group R-2 or R-3; the door is an exterior door that is not a component of the required means of egress; the door, other than an exterior storm or screen door, does not swing over the landing or step; and the doorway is not on an accessible route as required by Chapter 11 and is not part of an Accessible unit, Type A unit, or Type B unit.

**1009.3 Stair treads and risers.** Stair riser heights shall be 7 inches (178 mm) maximum and 4 inches (102 mm) minimum. Stair tread depths shall be 11 inches (279 mm) minimum. The riser height shall be measured vertically between the leading edges of adjacent treads. The tread depth shall be measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's leading edge. Winder treads shall have a minimum tread depth of 11 inches (279 mm) measured at a right angle to the tread's leading edge at a point 12 inches (305 mm) from the side where the treads are narrower and a minimum tread depth of 10 inches (254 mm).

**Exceptions:**

1. Alternating tread devices in accordance with Section 1009.9.
2. Spiral stairways in accordance with Section 1009.8.
3. Aisle stairs in assembly seating areas where the stair pitch or slope is set, for sightline reasons, by the slope of the adjacent seating area in accordance with Section 1025.11.2.

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4. In Group R-3 occupancies; within dwelling units in Group R-2 occupancies; and in Group U occupancies that are accessory to a Group R-3 occupancy or accessory to individual dwelling units in Group R-2 occupancies; the maximum riser height shall be ~~8~~ inches (~~203~~ mm); the minimum tread depth shall be 10 inches (254 mm); the minimum winder tread depth at the walk line shall be 10 inches (254 mm); and the minimum winder tread depth shall be 6 inches (152 mm). A nosing not less than 0.75 inch (19.1 mm) but not more than 1.25 inches (32 mm) shall be provided on stairways with solid risers where the tread depth is less than 11 inches (279 mm).

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5. See the Section 3403.4 ~~or the International Existing Building Code~~ for the replacement of existing stairways.

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**1009.10 Handrails.** Stairways shall have handrails on each side and shall comply with Section 1012. Where glass is used to provide the handrail, the handrail shall also comply with Section 2407.

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**Exceptions:**

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1. Aisle stairs complying with Section 1025 provided with a center handrail need not have additional handrails.

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2. Stairways within dwelling units, spiral stairways, and aisle stairs serving seating only on one side are permitted to have a handrail on one side only.

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3. Decks, patios, and walkways that have a single change in elevation where the landing depth on each side of the change of elevation is greater than what is required for a landing do not require handrails.

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4. In Group R-3 occupancies, a change in elevation consisting of ~~less than four~~ risers at an entrance or egress door does not require handrails.

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5. Changes in room elevations of ~~less than four risers~~ within dwelling units and sleeping units in Group R-2 and R-3 occupancies do not require handrails.

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**1013.3 Opening limitations.** Open guards shall have balusters or ornamental patterns such that a ~~5-inch~~ diameter (~~127~~ mm) sphere cannot pass through any opening up to a height of 34 inches (864 mm). From a height of 34 inches (864 mm) to 42 inches (1,067 mm) above the adjacent walking surfaces, a sphere 8 inches (203 mm) in diameter shall not pass.

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**Exceptions:**

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1. The triangular openings formed by the riser, tread, and bottom rail at the open side of a stairway shall be of a maximum size such that a sphere of 6 inches (152 mm) in diameter cannot pass through the opening.

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2. At elevated walking surfaces for access to and use of electrical, mechanical, or plumbing systems or equipment, guards shall have balusters or be of solid materials such that a sphere with a diameter of 21 inches (533 mm) cannot pass through any opening.
3. In areas that are not open to the public within occupancies in Group I-3, F, H, M, or S, balusters, horizontal intermediate rails, or other construction shall not permit a sphere with a diameter of 21 inches (533 mm) to pass through any opening.
4. In assembly seating areas, guards at the end of aisles where they terminate at a fascia of boxes, balconies, and galleries shall have balusters or ornamental patterns such that a ~~5-inch~~-diameter (~~127~~, mm) sphere cannot pass through any opening up to a height of 26 inches (660 mm). From a height of 26 inches (660 mm) to 42 inches (1,067 mm) above the adjacent walking surfaces, a sphere 8 inches (203 mm) in diameter shall not pass.
5. Within individual dwelling units and sleeping units in Group R-2 and R-3 occupancies, openings for required guards on the sides of stair treads shall not allow a sphere of ~~5~~, inches (~~127~~, mm) to pass through.

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**1015.2.1 Two exits or exit access doorways.** Where two exits or exit access doorways are required from any portion of the exit access, the exit access including the exit doors or exit access doorways shall be placed a distance apart equal to not less than one-half of the length of the maximum overall diagonal dimension of the building or area to be served measured in a straight line between exit access including the exit doors or exit access doorways. Interlocking or scissor stairs shall be counted as one exit stairway.

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**Exceptions:**

1. Where exit enclosures are provided as a portion of the required exit and are interconnected by a 1-hour fire-resistance-rated corridor conforming to the requirements of Section 1017, the required exit separation shall be measured along the shortest direct line of travel within the corridor.
2. Where a building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2, the separation distance of the exit access including the exit doors or exit access doorways shall not be less than one-third of the length of the maximum overall diagonal dimension of the area served.

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**1015.2.2 Three or more exits or exit access doorways.** Where access to three or more exits is required, at least two means of exit access including two exit doors or exit access doorways shall be arranged in accordance with the provisions of Section 1015.2.1.

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**TABLE ~~1019.2~~**  
**BUILDINGS WITH ONE EXIT**

Maximum Height of	Maximum Occupants
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Occupancy	Building Above Grade Plane	(or Dwelling Units) Floor and Travel Distance	
A, B(c), E(d), F, M, U	1 Story	<del>49</del> occupants and 75 feet travel distance	Deleted: 50
H-2, H-3	1 Story	3 occupants and 25 feet travel distance	
H-4, H-5, I(d), R	1 Story	10 occupants and 75 feet travel distance	
S	1 Story	<del>29</del> occupants and 75 feet travel distance	Deleted: 30 Formatted: Font: (Default) Times New Roman
B(b), F, M, S(a)	2 Story	30 occupants and 75 feet travel distance	Formatted: Font: (Default) Times New Roman
R-2	2 Story(c)	4 dwelling units and 50 feet travel distance	Deleted: c. Buildings classified as Group R-2 equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2 and provided with emergency escape and rescue openings in accordance with Section 1026 shall have a maximum height of three stories above grade plane.¶
For SI: 1 foot = 304.8 mm.			
a. For the required number of exits for open parking structures, see Section 1019.1.1.			
b. For the required number of exits for air traffic control towers, see Section 412.1.			
<del>c.</del> Buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 with an occupancy in Group B shall have a maximum travel distance of 100 feet.			Deleted: d. Deleted: e. Formatted: Font: (Default) Times New Roman Formatted: Font: (Default) Times New Roman
<del>d.</del> Daycare maximum occupant load is 10.			Formatted: Font: (Default) Times New Roman, Not Highlight
<b>1020.1.5, Discharge identification barrier.</b> A stairway in an exit enclosure shall not continue below the level of exit discharge unless an approved barrier <u>or a directional exit sign</u> is provided at the level of exit discharge to prevent persons from unintentionally continuing into levels below. Directional exit signs shall be provided as specified in Section 1011.			Formatted: Font: (Default) Times New Roman, Not Highlight Deleted: 1019.1.6 Formatted: Font: (Default) Times New Roman
<b>1026.1, General.</b> In addition to the means of egress required by this chapter, provisions shall be made for emergency escape and rescue in Group R and I-1 occupancies. Basements and sleeping rooms below the fourth story above grade plane shall have at least one exterior emergency escape and rescue opening in accordance with this section. Where basements contain one or more sleeping rooms, emergency egress and rescue openings shall be required in each sleeping room, but shall not be required in adjoining areas of the basement. Such openings shall open directly into a public way or to a yard or court that opens to a public way.			Deleted: 1025.1 Formatted: Font: (Default) Times New Roman, Not Highlight Formatted: Font: (Default) Times New Roman
<b>Exceptions:</b>			Deleted: 1. In other than Group R-3 occupancies, buildings equipped throughout with an approved automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2. Deleted: ¶ 2. In other than Group R-3 occupancies, sleeping rooms provided with a door to a fire-resistance-rated corridor having access to two remote exits in opposite directions.¶

1. The emergency escape and rescue opening is permitted to open onto a balcony within an atrium in accordance with the requirements of Section 404, provided the balcony provides access to an exit and the dwelling unit or sleeping unit has a means of egress that is not open to the atrium.

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2. Basements with a ceiling height of less than 80 inches (2032 mm) shall not be required to have emergency escape and rescue windows.

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3. High-rise buildings in accordance with Section 403.

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4. Emergency escape and rescue openings are not required from basements or sleeping rooms that have an exit door or exit access door that opens directly into a public way or to a yard, court or exterior exit balcony that opens to a public way.

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5. Basements without habitable spaces and having no more than 200 square feet (18.6m2) in floor area shall not be required to have emergency escape windows.

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**1026.2 Minimum size.** Emergency escape and rescue openings shall have a minimum net clear opening of 5.0 square feet (0.46 m2).

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**1026.3 Maximum height from floor.** Emergency escape and rescue openings shall have the bottom of the clear opening not greater than 48 inches (1,219 mm) measured from the floor.

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**1026.5.2 Ladders or steps.** Window wells with a vertical depth of more than 48 inches (1,219 mm) shall be equipped with an approved permanently affixed ladder or steps. Ladders or rungs shall have an inside width of at least 12 inches (305 mm), shall project at least 3 inches (76 mm) from the wall and shall be spaced not more than 18 inches (457 mm) on center (o.c.) vertically for the full height of the window well. The ladder or steps shall not encroach into the required dimensions of the window well by more than 6 inches (152 mm). The ladder or steps shall not be obstructed by the emergency escape and rescue opening. Ladders or steps required by this section are exempt from the stairway requirements of Section 1009.

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**1104.4 Multilevel buildings and facilities.** At least one accessible route shall connect each accessible level, including mezzanines, in multilevel buildings and facilities.

**Exceptions:**

1. An accessible route from an accessible level is not required in facilities that are less than three stories in height or have less than 3,000 square feet (278.7 square meters) per story. This exception shall not apply to:

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1.1. Multiple tenant facilities of Group M occupancies containing five or more tenant spaces.

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1.2. Levels containing offices of health care providers (Group B or I).

1.3. Passenger transportation facilities and airports (Group A-3 or B).

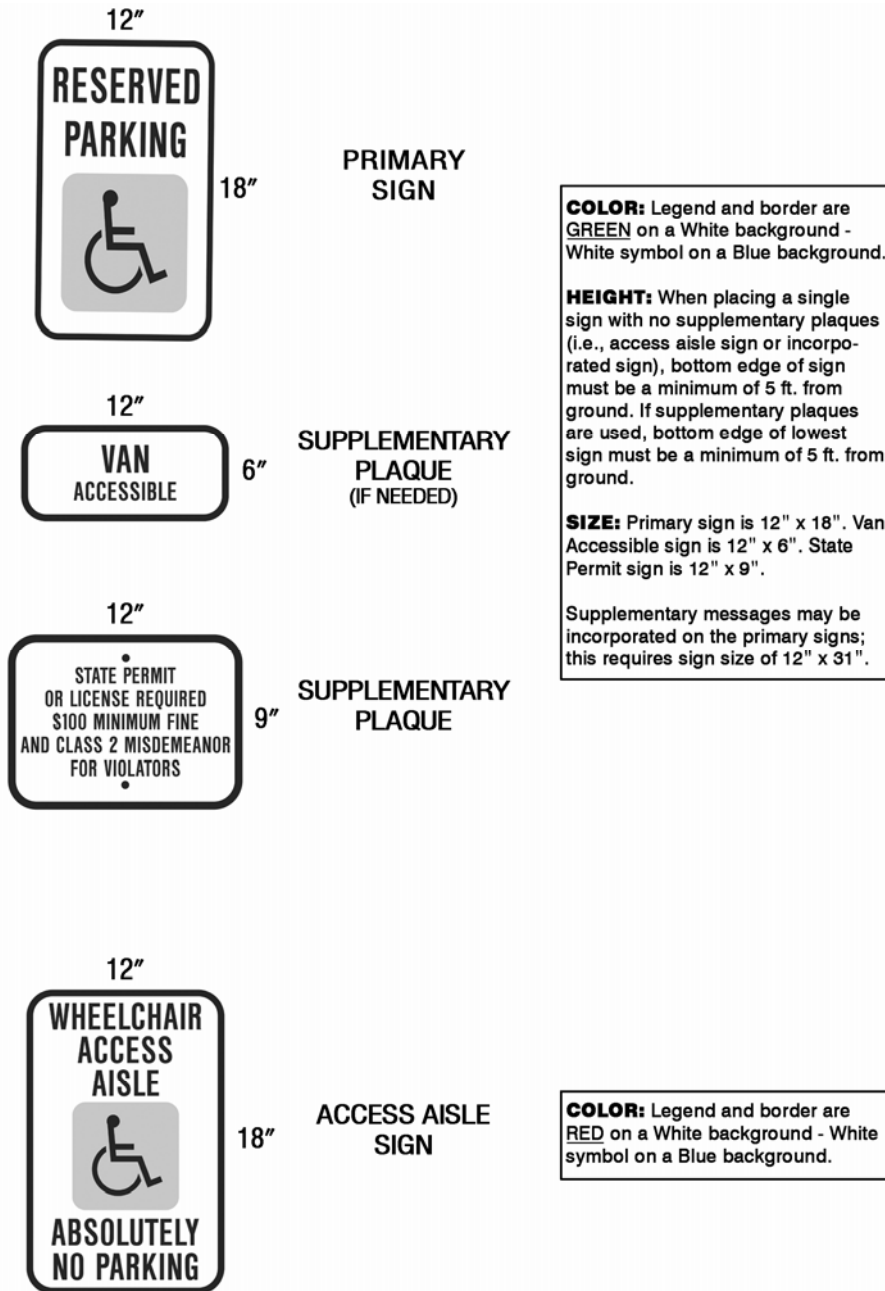
2. In Group A, I, R, and S occupancies, levels that do not contain accessible elements or other spaces required by Section 1107 or 1108 are not required to be served by an accessible route from an accessible level.
3. In air traffic control towers, an accessible route is not required to serve the cab and the floor immediately below the cab.
4. Where a two-story building or facility has one story with an occupant load of five or fewer persons that does not contain public use space, that story shall not be required to be connected by an accessible route to the story above or below.

**1106.8 Signage.** Accessible parking spaces and access aisles are required to be identified by signs. Signs shall be located at the head of accessible parking stalls and access aisles. The bottom of the lowest signs shall be located at least 60 inches above the pavement.

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As referenced above, standard and van accessible parking space signs shall state “RESERVED PARKING” and include the International Symbol of Accessibility, and supplemental signage must additionally state, “STATE PERMIT OR LICENSE REQUIRED. \$100 MINIMUM FINE AND CLASS 2 MISDEMEANOR FOR VIOLATORS.” A van accessible parking space must have additional signage stating, “VAN ACCESSIBLE.” A van accessible access aisle must be provided with signage including the International Symbol of Accessibility which states, “WHEELCHAIR ACCESS AISLE. ABSOLUTELY NO PARKING.”

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1106.9 Access aisles and markings. Each access which is part of an accessible route shall extend the full length of the parking space it serves. The aisle must have diagonally striped markings spaced every 4 feet (1,219 mm). Boundaries of the access aisle must be marked. The end may be a squared or curved shape. Two parking spaces may share an access aisle.

Access aisles shall be placed on level a level surface with a slope not to exceed 1:48

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1107.6.2 Group R-2. Type B units shall be provided in Group R-2 occupancies in accordance with Sections 1107.6.2.1 and 1107.6.2.2.

1107.6.2.1 Apartment houses, monasteries, and convents. Type B units shall be provided in apartment houses, monasteries and convents in accordance with Sections 1107.6.2.1.1 and 1107.6.2.1.2.

Deleted: In Group R-2 occupancies containing more than 20 dwelling units or sleeping units, at least 2 percent but not less than one of then units shall be a Type A unit. All units on a site shall be considered to determine the total number of units and the required number of Type A units. Type A units shall be dispersed among the various classes of units.¶

¶ Exceptions: 1. The number of Type A units is permitted to be reduced in accordance with Section 1107.7.¶

1107.6.2.1.1 Type A units. Delete.

1107.6.2.2 Group R-2 other than apartment houses, monasteries, and convents. In Group R-2 occupancies, other than apartment houses, monasteries, and convents, Type B units shall be provided in accordance with Sections 1107.6.2.2.1 and 1107.6.2.2.2.

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1205.4.1 Controls. The control for activation of the required stairway lighting shall be in accordance with the *Electrical Code*.

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1206.3.3 Court drainage. The bottom of every court shall be properly graded and drained to a public sewer or other approved disposal system complying with the *Plumbing Code*.

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1404.2.1 Weather-resistive sheathing papers. House wraps or weather-resistive sheathing papers consisting of spun bonded olefin sheets of high density polyethylene fibers are required to be installed on the exterior side of the sheathing material underneath the exterior covering.

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1405.12.2 Windowsills. In Occupancy Groups R-2 and R-3, one- and two-family and multiple-family dwellings, where the opening of the sill portion of an operable window is located more than 72 inches (1,829 mm) above the finished grade or other surface below, the lowest part of the clear opening of the window shall be a minimum of 18 inches (457 mm) above the finished floor surface of the room in which the window is located. Glazing between the floor and a height of 18 inches (457 mm) shall be fixed or have openings such that a 5-inch-diameter (127 mm) sphere cannot pass through.

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**Exception:** Openings that are provided with window guards that comply with ASTM F 2006 or F 2090.

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**[P] 1503.4 Roof drainage.** Design and installation of roof drainage systems shall comply with the *Plumbing Code*.

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**[P] 1503.4.2 Secondary roof drainage.** Roofs shall be sloped a minimum of 1 unit vertical in 48 units horizontal (2 percent slope) for drainage unless designed for water accumulation in accordance with Section 1611.2 Ponding Instability.

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**[P] 1503.4.2.1 Roof drains.** Unless roofs are sloped to drain over roof edges, roof drains shall be installed at each low point of the roof. Roof drains shall be sized and discharged in accordance the *Plumbing Code*.

**[P] 1503.4.2.2 Overflow drains and scuppers.** Where roof drains are required, overflow drains having the same size as the roof drains shall be installed with the inlet flow line located 2 inches (51 mm) above the low point of the roof, or overflow scuppers having three times the size of the roof drains and having a minimum opening height of 4 inches (102 mm) may be installed in the adjacent parapet walls with the inlet flow line located 2 inches (51 mm) above the low point of the adjacent roof.

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Overflow drains shall discharge to an approved location and shall not be connected to roof drain lines.

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**[P] 1503.4.2.3 Concealed piping.** Roof drains shall discharge to an approved location and shall not be connected to roof drain lines.

**[P] Over public property.** Roof drainage water from a building shall not be permitted to flow over public property.

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**1601.1 Scope.** The provisions of this chapter shall govern the structural design of buildings, structures and portions thereof regulated by this code.

It shall not be the responsibility of the building official to determine engineering requirements of this code. Exclusive of Conventional Light-Frame Wood Construction provisions referenced in Section 2308, the method to resist loads as referenced in this chapter is the responsibility of a structural engineer or other qualified design professional.

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**1612.3 Establishment of flood hazard areas.** To establish flood hazard areas, the governing body shall adopt a flood hazard map and supporting data. The flood hazard map shall include, at a minimum, areas of special flood hazard as identified by the Federal Emergency Management Agency in an engineering report entitled "The Flood Insurance Study for the City of Sioux Falls, SD," dated September 17, 1979, as amended or revised with the accompanying Flood Insurance Rate Map (FIRM) and Flood Boundary and Floodway Map (FBFM) and related supporting data along with any revisions thereto. The adopted flood hazard map and supporting data are hereby adopted by reference and declared to be part of this section. If there is a conflict between the

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provisions of this code and the city's floodplain management ordinance, the provisions of the floodplain management ordinance shall prevail.

**1703.1 Approved agency.** An approved agency or the design professional of record shall provide all information as necessary for the building official to determine that the agency meets the applicable requirements.

**1704.1 General.** Where application is made for construction as described in this section, the owner or the registered design professional in responsible charge acting as the owner's agent shall employ one or more special inspectors to provide inspections during construction on the types of work listed under Section 1704. The special inspector shall be a qualified person who shall demonstrate competence, to the satisfaction of the building official, for inspection of the particular type of construction or operation requiring special inspection. These inspections are in addition to the inspections specified in Section 109.

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**Exceptions:**

1. Special inspections are not required for work of a minor nature or as warranted by conditions in the jurisdiction as approved by the building official.
2. Special inspections are not required for building components unless the design involves the practice of professional engineering or architecture as defined by applicable state statutes and regulations governing the professional registration and certification of engineers or architects.
3. Unless otherwise required by the building official, special inspections are not required for occupancies in Group R-3 as applicable in Section 101.2 and occupancies in Group U that are accessory to a residential occupancy including, but not limited to, those listed in Section 312.1.
4. The frequency and amount of special inspections shall be as determined by the design professional of record. The continuous and periodic inspections referenced in Tables 1704.3, 1704.4, 1704.5.1, 1704.5.3, 1704.7, 1704.8, AND 1704.9 shall be considered as a guideline.

**1704.4 Concrete construction.** The special inspections and verifications for concrete construction shall be as required by this section and Table 1704.4.

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**Exceptions:** Special inspections shall not be required for:

1. Isolated spread concrete footings of buildings three stories or less in height that are fully supported on earth or rock.
2. Continuous concrete footings and nonlateral loaded foundation walls supporting walls of buildings three stories or less in height that are fully supported on earth or rock where:

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2.1. The footings and foundations support walls of light-frame construction.

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2.2. The footings are designed in accordance with Table 1805.4.2.

2.3. The structural design of the footing is based on a specified compressive strength,  $f'_c$ , no greater than 3,000 pounds per square inch (psi) (20.6 MPa), regardless of the compressive strength specified in the construction documents or used in the footing construction.

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3. Nonstructural concrete slabs supported directly on the ground, including prestressed slabs on grade, where the effective prestress in the concrete is less than 150 psi (1.03 MPa).
4. Concrete foundation walls constructed in accordance with Table 1805.5(5).
5. Concrete patios, driveways and sidewalks, on grade.

#### 1704.12 Exterior insulation and finish systems (EIFS). Delete.

Deleted: Special inspections shall be required for all EIFS applications.¶

¶  
Exceptions: 1. Special inspections shall not be required for EIFS applications installed over a water-resistive barrier with a means of draining moisture to the exterior.¶

¶  
2. Special inspections shall not be required for EIFS applications installed over masonry or concrete walls.

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### Section 1716. Prefabricated construction.

#### 1716.1. General.

1716.1.1 Purpose. The purpose of this section is to regulate materials and establish methods of safe construction where any structure or portion thereof is wholly or partially prefabricated.

1716.1.2 Scope. Unless otherwise specifically stated in this section, all prefabricated construction and materials used therein shall conform to all the requirements of this code.

#### 1716.1.3 Definitions.

Prefabricated assembly is a structural unit, the integral parts of which have been built or assembled prior to incorporation in the building.

Prefabricated structures are structures the parts of which are fabricated and assembled in a central assembly point where on-site building, electrical, plumbing, and mechanical rough-in inspections occur at the assembly location.

1716.2 Tests of materials. Every approval of a material not specifically mentioned in this code shall incorporate as a proviso the kind and number of nationally recognized tests to be made during prefabrication.

1716.3 Tests of assemblies. The building official may require special tests to be made on assemblies to determine their durability and weather resistance.

**1716.4 Connections.** Every device used to connect prefabricated assemblies shall be designed as required by this code and shall be capable of developing the strength of the members connected, except in the case of members forming part of a structural frame as specified in Chapter 16. Connections shall be capable of withstanding uplift forces as specified in this code and in Chapter 16.

**1716.5 Pipes and conduits.** In structural design, due allowance shall be made for any material to be removed for the installation of pipes, conduit, and other equipment.

**1716.6 Permits, materials, plans, fees, certificate, and inspections.**

**1716.6.1 Materials.** Materials and the assembly thereof shall be inspected to determine compliance with this code. Every material shall be graded, marked, or labeled as required elsewhere in this code.

**1716.6.2 Plans.** One complete set of plans and specifications shall be submitted to the building inspection division of planning and building services for approval prior to issuing a building permit for a prefabricated structure. Plans shall be of sufficient detail and clarity to indicate compliance with all applicable codes (electrical, plumbing, building, mechanical, and zoning).

**1716.6.3. Permits and fees.** Permit fees shall be as follows:

1. The fee for a building permit shall conform to Tables 1-A and 1-B, and the plan review fee, if applicable, shall be in accordance with Table 1-C.
2. Electrical, plumbing, and mechanical permits and fees shall conform to the respective permit requirements and fee schedules.

**1716.6.4 Certificate.** A certificate of approval shall be furnished with every prefabricated assembly and prefabricated structure, except where the assembly is readily accessible to inspection at the site. The certificate of approval shall certify that the assembly in question has been inspected and meets all the requirements of this code. When mechanical equipment is installed so that it cannot be inspected at the site, the certificate of approval shall certify that such equipment complies with the laws applying thereto.

**1716.6.5 Certifying agency.** To be acceptable under this code, every certificate of approval shall be made by the approved agency.

**1716.6.6 Field erection.** The building official shall inspect placement of prefabricated assemblies at the building site to determine compliance with this code. Installation and finishing work at the building site must be performed by locally licensed contractors where required. Final inspections are to be made after the installation and finishing work has been completed and the building is ready for occupancy.

**1716.6.7 Continuous inspection.** If continuous inspection is required for certain materials where construction takes place on the site, it shall also be required where the same materials are used in prefabricated construction.

**Exception:** Continuous inspection will not be required during prefabrication if the approved agency certifies to the construction and furnishes evidence of compliance.

**1716.6.8 Moving permits.** A moving permit shall be obtained for each prefabricated structure being moved within the city in accordance with Section 3404 Moved Buildings. No person except a building mover licensed pursuant to Subsection 3404.2 of Section 11-20 of the Revised Ordinances of Sioux Falls shall move a prefabricated structure or part thereof across, along, or over public property.

**1803.7 Grading permits required.** No person shall excavate or grade without first obtaining a permit from the city engineer. If a building permit is not obtained, a separate grading permit must be obtained from the city engineer for each site, and may cover both excavations and fills.

**Exceptions:**

1. A separate grading permit is not required from the city engineer where a site plan for a new building, structure, or addition is submitted for plan review where an excavation below finished grade for basements, footings, and foundations of a building, retaining wall, or other structure is authorized by a valid building permit.

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2. A fill of less than one foot in depth and placed on natural terrain with a slope flatter than one unit vertical to five units horizontal (20 percent slope), or less than three feet (914 mm) in depth not intended to support structures, which does not exceed 300 cubic yards (153 m<sup>3</sup>) on any one lot and does not obstruct a drainage course.

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3. Excavation, removal, or stockpiling of rock, sand, dirt, clay, or other like material, as may be required by the state, county, or city authorities in connection with the construction or maintenance of roads and highways. This shall not exempt work for street construction when such work is performed by private developers. When the private developer has obtained a permit to perform site grading, a second permit will not be required for street grading.

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4. When approved by the city engineer, grading in an isolated, self-contained area if there is no danger to public or private property.

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5. Cemetery graves.

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6. Refuse disposal sites controlled by other regulations.

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7. Excavations for wells, tunnels, or utilities.

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8. Mining, quarrying, excavating, processing, or stockpiling of rock, sand, gravel, aggregate or clay where established and provided for by law, provided such operations do not affect the lateral support or increase the stresses in or pressure upon any adjacent or contiguous property.

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9. Exploratory excavations under the direction of soils engineers or engineering geologists.

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10. An excavation that (1) is less than two feet (610 mm) in depth or (2) does not create a cut slope of less than five feet (1,524 mm) in height and steeper than one unit vertical in one and one-half units horizontal (66.7 percent slope).

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Exemptions from the permit requirements of this chapter shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this chapter or any other laws or ordinances of this jurisdiction.

1803.7.1 Grading permit requirements. Grading shall be performed in accordance with a grading plan approved by the city engineer. Submitted plans shall indicate existing elevations, proposed elevations, method of erosion control, and shall include the legal description.

1804.2 Presumptive load-bearing values. The maximum allowable foundation pressure, lateral pressure, or lateral sliding-resistance values for supporting soils near the surface shall not exceed the values specified in Table 1804.2 unless data to substantiate the use of a higher value are submitted and approved.

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Presumptive load-bearing values shall apply to materials with similar physical characteristics and dispositions. Where a presumed soil bearing capacity is in excess of 3,000 psf (471 kPa/m), data to substantiate the use of the presumed higher value must be submitted from a soils engineer for approval from the building official. Mud, organic silt, organic clays, peat, or unprepared fill shall not be assumed to have a presumptive load-bearing capacity unless data to substantiate the use of such a value are submitted.

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**Exception:** A presumptive load-bearing capacity is permitted to be used where the building official deems the load-bearing capacity of mud, organic silt, or unprepared fill is adequate for the support of lightweight and temporary structures.

1805.2.1 Frost protection. Except where otherwise protected from frost, foundation walls, piers and other permanent supports of buildings and structures shall be protected by one or more of the following methods:

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1. Extending below the frost line of the locality.
2. Constructing in accordance with ASCE 32.

3. Erecting on solid rock.

**Exception:** Free-standing buildings meeting all of the following conditions shall not be required to be protected:

1. Classified in Occupancy Category I, in accordance with Section 1604.5.
2. Area of 1,500 square feet (138 m<sup>2</sup>) or less for light-frame construction or 400 square feet (37 m<sup>2</sup>) or less for other than light-frame construction.
3. Eave height of 12 feet (3,658 mm) or less.

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Footings shall not bear on frozen soil unless such frozen condition is of a permanent character.

**2308.9.3 Bracing.** Braced wall lines shall consist of braced wall panels that meet the requirements for location, type, and amount of bracing as shown in Figure 2308.9.3, specified in Table 2308.9.3(1) and are in line or offset from each other by not more than 4 feet (1,219 mm) except for offsets not more than 200 square feet. Braced wall panels shall start not more than 12 1/2 feet (3,810 mm) from each end of a braced wall line. Braced wall panels shall be clearly indicated on the plans. Construction of braced wall panels shall be by one of the following methods:

1. Nominal 1-inch by 4-inch (25 mm by 102 mm) continuous diagonal braces let into top and bottom plates and intervening studs, placed at an angle not more than 60 degrees (1.0 rad) or less than 45 degrees (0.79 rad) from the horizontal and attached to the framing in conformance with Table 2304.9.1.
2. Wood boards of 5/8 inch (15.9 mm) net minimum thickness applied diagonally on studs spaced not over 24 inches (610 mm) o.c.
3. Wood structural panel sheathing with a thickness not less than 5/16 inch (7.9 mm) for a 16-inch (406 mm) stud spacing and not less than 3/8 inch (9.5 mm) for a 24-inch (610 mm) stud spacing in accordance with Tables 2308.9.3(2) and 2308.9.3(3).
4. Fiberboard sheathing panels not less than 1/2 inch (12.7 mm) thick applied vertically or horizontally on studs spaced not over 16 inches (406 mm) o.c. where installed with fasteners in accordance with Section 2306.4.4 and Table 2306.4.4.
5. Gypsum board [sheathing 1/2-inch-thick (12.7 mm) by 4-feet-wide (1,219 mm) wallboard or veneer base] on studs spaced not over 24 inches (610 mm) o.c. and nailed at 7 inches (178 mm) o.c. with nails as required by Table 2306.4.5.

- 6. Particleboard wall sheathing panels where installed in accordance with Table 2308.9.3(4). Formatted: Font: (Default) Times New Roman, Not Highlight
- 7. Portland cement plaster on studs spaced 16 inches (406 mm) o.c. installed in accordance with Section 2510. Formatted: Font: (Default) Times New Roman, Not Highlight
- 8. Hardboard panel siding where installed in accordance with Section 2303.1.6 and Table 2308.9.3(5). Formatted: Font: (Default) Times New Roman, Not Highlight

For cripple wall bracing, see Section 2308.9.4.1. For Methods 2, 3, 4, 6, 7, and 8, each panel must be at least 48 inches (1,219 mm) in length, covering three stud spaces where studs are spaced 16 inches (406 mm) apart and covering two stud spaces where studs are spaced 24 inches (610 mm) apart. Formatted: Font: (Default) Times New Roman, Not Highlight

For Method 5, each panel must be at least 96 inches (2,438 mm) in length where applied to one face of a panel and 48 inches (1,219 mm) where applied to both faces. Formatted: Font: (Default) Times New Roman, Not Highlight

All vertical joints of panel sheathing shall occur over studs and adjacent panel joints shall be nailed to common framing members. Horizontal joints shall occur over blocking or other framing equal in size to the studding except where waived by the installation requirements for the specific sheathing materials. Formatted: Font: (Default) Times New Roman, Not Highlight

Sole plates shall be nailed to the floor framing and top plates shall be connected to the framing above in accordance with Section 2308.3.2. Where joists are perpendicular to braced wall lines above, blocking shall be provided under and in line with the braced wall panels.

**2701.1 Scope.** This chapter governs the electrical components, equipment and systems used in buildings and structures covered by this code. Electrical components, equipment and systems shall be designed and constructed in accordance with the provisions of the *Electrical Code*. Deleted: ICC

**[P] 2901.1 Scope.** The provisions of this chapter and the *Plumbing Code* shall govern the erection, installation, alteration, repairs, relocation, replacement, addition to, use, or maintenance of plumbing equipment and systems. Plumbing systems and equipment shall be constructed, installed, and maintained in accordance with the *Plumbing Code*. Private sewage disposal systems shall conform to the *Plumbing Code*. Deleted: International

**[P] 2902.1.1 Unisex toilet and bath fixtures.** Fixtures located within unisex toilet bathing rooms are permitted to be included in determining the minimum required number of fixtures. Deleted: International

**2902.1.1 Unisex toilet and bath fixtures.** Fixtures located within unisex toilet bathing rooms are permitted to be included in determining the minimum required number of fixtures for assembly and mercantile occupancies. Deleted: International Private Sewage Disposal

**2902.1.2 Substitution for water closets.** In a toilet room or bathroom, urinals shall not be substituted for more than 67 percent of the required water closets. Deleted: complying with Section 404 of the International Plumbing Code

[P] 2902.2 **Separate facilities.** Where plumbing fixtures are required, separate facilities shall be provided for each sex.

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**Exceptions:**

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1. Separate facilities shall not be required for dwelling units and sleeping units.
2. Separate facilities shall not be required in structures or tenant spaces with a total occupant load, including both employees and customers, of 15 or less.
3. Separate facilities shall not be required in office and mercantile occupancies which are less than 2,500 square feet.

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Deleted: Solid barriers which do not have openings shall not contain indentations or protrusions except for normal construction tolerances and tooled masonry joints.

**3109.1 General.** Swimming pools shall comply with the requirements of this section and other applicable sections of this code. These requirements shall be applicable to all new swimming pools hereafter constructed and shall apply to all existing pools which have a depth of 18 inches or more of water. No person in possession of land within the city, either as an owner, purchaser, lessee, tenant, or a licensee, upon which is situated a swimming pool having a depth of 18 inches or more shall fail to provide and maintain such a fence or wall as herein provided.

Deleted: Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is less than 45 inches (1143 mm), the horizontal members shall be located on the swimming pool side of the fence. Spacing between vertical members shall not exceed 1.75 inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 inches (44 mm) in width.

**3109.2 Definition.** The following word and term shall, for the purposes of this section and as used elsewhere in this code, have the meaning shown herein.

**SWIMMING POOLS.** Any structure intended for swimming, recreational bathing, or wading that contains water over 18 inches (457 mm) deep. This includes in-ground, above-ground, and on-ground pools; hot tubs; spas; and fixed-in-place wading pools.

Deleted: Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is 45 inches (1143 mm) or more, spacing between vertical members is ... [13]

**3109.4.1 Barrier height and clearances.** The top of the barrier shall be at least 42 inches (1,066 mm) above grade measured on the side of the barrier that faces away from the swimming pool. The maximum vertical clearance between grade and the bottom of the barrier shall be 2 inches (51 mm) measured on the side of the barrier that faces away from the swimming pool. Where the top of the pool structure is above grade, the barrier is authorized to be at ground level or mounted on top of the pool structure, and the maximum vertical clearance between the top of the pool structure and the bottom of the barrier shall be 4 inches (102 mm).

Deleted: Maximum mesh size for chain link fences shall be a 2.25 inch square mesh ... [14]

**3109.4.1.2 Solid barrier surfaces.** Delete.

Deleted: Where the barrier is composed of diagonal members, the maximum spacing between members shall be ... [15]

**3109.4.1.3 Closely spaced horizontal members.** Delete.

Deleted: Where a wall of a dwelling serves as part of the barrier, one opening in the wall shall be ... [16]

**3109.4.1.4 Widely spaced horizontal members.** Delete.

Deleted: Doors with direct access to the pool through that wall shall be equipped with self-closing doors ... [17]

**3109.4.1.5 Chain link dimensions.** Delete.

Deleted: and be capable of being heard throughout the house during normal conversation ... [18]

**3109.4.1.6 Diagonal members.** Delete.

Deleted: The pool shall be equipped with a power safety cover that complies with the requirements of ... [19]

**3109.4.1.8 Dwelling wall as a barrier.** Delete.

Deleted: Other means of protection, such as self-closing doors with self-latching devices, shall be permitted ... [20]

Deleted: accepted so long as the degree of protection afforded is not less than that required by this code ... [21]

**3109.4.4 Modifications.** Modification in individual cases, upon a showing of good cause with respect to height, nature, or location of a fence, wall, gates, or latches, or the necessity thereof, may be made by the building official, provided the protection as sought hereunder is not reduced thereby. The building official may grant permission for other protective devices or structures to be used as long as the degree of protection afforded by this substitute device or structure is not less than the protection afforded by the wall, fence, gate, and latch described herein. A reasonable period within which to comply with the requirements of this section for existing swimming pools shall be allowed, which period shall not exceed 90 days after notification by the building official.

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**3303.1 Construction documents.** No person shall demolish or wreck a building or structure without first obtaining a razing permit. Permit fees shall be paid in accordance with Item 5 of Table 3-C. Construction documents and a schedule for demolition must be submitted when required by the building official. Where such information is required, no work shall be done until such construction documents or schedule, or both, are approved. The applicant shall secure insurance covering any possible liability that could incur during demolition.

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**3303.6 Utility connections.** Service utility connections shall be discontinued and capped in accordance with the approved rules and the requirements of the authority having jurisdiction. Before a razing permit can be issued, the applicant must furnish approval from the city engineering department that applicable permits have been secured to assure that all utilities will be properly disconnected and inspected as per city engineer's specifications. The applicant shall be responsible for notifying other utilities of such anticipated demolition.

**3401.3 Compliance with other codes.** Alterations, repairs, additions, and changes of occupancy to existing structures shall comply with the provisions for alterations, repairs, additions, and changes of occupancy in the Fire Code, Fuel Gas Code, Mechanical Code, Plumbing Code, Property Maintenance Code, Residential Code, and Electrical Code.

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**3408.1 Conformance.** Structures moved into or within the jurisdiction shall comply with the provisions of this code for new structures.

**Exceptions:**

1. Mobile homes used as a dwelling and located in a mobile home park operated under a valid license.
2. Mobile homes used as a dwelling and located in a manufactured housing park.
3. Mobile homes used as a dwelling associated with a farm in conformance with Section 15.07.030.
4. Structures used as a temporary office or shelter on a construction or development site when approved by the building official.

5. Structures used as a temporary business office for a period not to exceed one year when approved by the building official and provided it meets the applicable accessibility requirements of this code.

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6. Mobile homes used as a temporary dwelling as specified in Section 15.63.080(c)(2) of the Revised Ordinances of Sioux Falls.

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7. Mobile homes used as caretaker quarters as specified in Section 15.49.110 of the Revised Ordinances of Sioux Falls.

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8. Mobile homes/manufactured homes used as a sales office at a location where such homes are offered for sale provided it meets the applicable accessibility requirements of this code.

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**3408.2 Definitions.** For the purpose of this section, the following words and phrases mean:

1. Building mover. Any person, firm, partnership, corporation, or association who engages in the business or work of moving a building across public property within the city.

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2. Building moving. The moving of any house, building, structure, or any part or parts thereof, except structures or parts of structures less than 12 feet wide and 13.5 feet high when loaded, from one location to another when moving requires traveling upon, across, along, or over any street, avenue, highway, thoroughfare, alley, sidewalk, or other public ground in the city. This term does not apply to manufactured or modular structures or assemblies which do not exceed 15 feet in height and 16.6 feet in width including all nonstructural appendages, or a length of 80.6 feet including all nonstructural appendages.

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3. Agency. The planning and building services department, police department, city forester, and city engineering department.

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**3408.3 License required.** No person except a building mover licensed by the city shall move any building, house, or structure or part thereof across, along, or over any public property.

**3408.4 License application.** Any person desiring to engage in the business of building moving must file a written application for the building mover's license in the city engineering department.

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**3408.5 Bonding.** The applicant for a building mover's license shall file with the application a bond running to the city in the penal sum of \$10,000.00 with sufficient sureties and conditioned that the license will comply with all city requirements to the satisfaction of the city engineering department and shall encompass repairs due to any damage to any sidewalk, crosswalk, hydrant, street, alley, or other property done or caused by himself, his servants, or employees in connection with moving any building.

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The bond will guarantee payment for damages to property and payment to the city for services provided by the city. The license will indemnify and save harmless the city against any and all liability for damages, costs, or expenses arising out of any negligence on his part or on the part of his servants or employees in connection with the moving of any building, or the use of any public street or ground for that purpose.

**3408.6 Revocation.** A building mover's license may be revoked at any time if the mover violates the provisions of this chapter or rules established by the agency or conducts his business in a careless or reckless manner, or refuses to make prompt payment of any sums due the city from him under any of the provisions of this chapter or whose bond or insurance as required herein has been cancelled or otherwise terminated.

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**3408.7 Transferability.** No license or permit issued pursuant to this chapter shall be transferable.

**3408.8 Permits required.** No person shall engage in building moving unless and until he has obtained a building moving permit, which will not be issued to anyone except a person licensed as the building mover. Such permit shall be obtained not less than 48 hours prior to the move.

**3408.9 Prerequisites to a permit.** No permit to move a building shall be issued as hereunder provided until the following conditions have been satisfied.

A. A permit for capping the sanitary sewer service and/or water service shall be obtained pursuant to Section 41-20 and 41-21 of the Revised Ordinances of Sioux Falls.

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B. A building permit is required to place a one- or two-family dwelling in a residential zoning district on the property described on the application if located in the city. Before a city building permit can be issued for a one- or two-family dwelling to be moved in a residential zoning district, the applicant shall post the property. A hearing before the building board of appeals will be required prior to the issuance of the building permit upon request from the public. A hearing will be initiated and scheduled at the request of the public within the time period of posting the signs per Item 1 below. The request shall be in writing on forms provided by Building Services.

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Before any action can be taken by the board, the applicant shall:

1. Post the property where the dwelling is to be moved for a continuous period of not less than five working days with signs furnished by the building official. At least two signs shall be posted. The applicant shall submit a written oath that the signs were properly posted.

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2. Submit one certified copy of the restrictions and covenants of the property where the dwelling is proposed to be moved. Those portions applicable to

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the dwelling shall be highlighted. If the property contains no restrictions or covenants, a statement to that fact shall be submitted.

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3. Submit a proposed site plan containing the legal description where the dwelling is proposed to be moved.

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4. Submit the inspection report from the building inspector.

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5. Submit original clear photographs of the front, rear, and side elevations of the dwelling to be moved.

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C. Any person filing an application for a moving permit shall file with the city engineer a liability insurance policy issued by the insurance company authorized to do business in this state and approved as to form by the city attorney in the following amounts: \$250,000.00 per person, \$500,000.00 per accident, \$500,000.00 property damage.

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D. When required by the building official, satisfactory evidence from a licensed pest control company that all nuisance pests have been exterminated from the structure.

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E. Approval of the route and time of move by the city traffic engineer and city forester.

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F. Approval from the planning and building services department concerning the moving of any building or structure in the historic district.

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**3408.10 Permit application.** The application shall contain the date or dates of the moving of the building, house, or structure, a detailed statement setting forth the proposed route to be followed, the name of the person in charge of the move, the location of the premises to which the structure or building is to be moved, and an agreement that the applicant will immediately report any damage done by the moving operation to any public property and will indemnify and hold the city harmless from any claims or damages for injuries to persons or property resulting from the moving of the building or structure.

### **3408.11 Fees.**

A. The fee for a permit for a house shall be \$75.00.

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B. The fee for a permit for all other structures shall be \$50.00.

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C. The following fees shall be paid for services provided by city departments:

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1. Street department/traffic device service worker or vehicle

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a. \$20.00 per hour for each traffic service worker

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b. \$15.00 per hour for each pickup

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c. \$15.00 per hour one-half-ton utility pickup

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d. \$25.00 per hour for each aerial

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2. Police department/police officer and vehicle

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a. \$50.00 per hour for each police officer

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b. \$75.00 per overtime hour for each police officer

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3. Light department/line worker and vehicle

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a. \$30.00 per hour for each line worker

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b. \$25.00 per hour for truck and tool

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Expenses shall be calculated from the date and hour the move will commence until the move is actually completed. Overtime expense will be computed at one and one-half times the hourly rate.

**3408.12 Denial.** If the applicant fails to agree or comply with the conditions as set forth herein or, in the judgment of the building official, the building or structure is in such a state of disrepair that it would not be safe to move the building or, if in the judgment of the traffic engineer or the city forester, the proposed move would result in an undue hazard to public traffic or undue damage to streets, sidewalks, trees, or other public property, the permit will be denied and reasons therefor endorsed upon the application.

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**3408.13 Restrictions on moving through streets.** All moving of the building once started shall continue until completed, and no building shall be parked along the route unless deemed an emergency and approved by the traffic engineer. The traffic engineer may require police escorts, temporary removal of traffic devices, or may restrict or specify the day and hours during which the moving operation must be accomplished.

**3408.14 Posting.** Two moving placards must be posted on a visible location of opposite ends of the building being moved during the entire move, and the person moving the building must carry a signed duplicate of the permit.

**3408.15 Escorts.** Movers shall provide a front and rear escort for all movements.

**3408.16 Flags.** Red and orange flags, 12 inches by 12 inches, must be fastened to the rear corners of the moving structure.

**3408.17 Notice to public service companies, cable TV operations, and the city of Sioux Falls.** Before moving any building, the building mover shall notify the Metro Communications (911) immediately prior to entering public property. The mover shall make arrangements with the police department and traffic engineers 48 hours prior to the move if a police escort is required. The mover shall also give 48 hours notice to all city departments, public service operations, and cable TV operators whose wires, traffic control devices, or other appliances which affect the moving of such building of the time when the move is to take place and request and arrange for the passage of such building. Such building mover shall pay to the city and said corporation and operators the reasonable cost and expense of the work required to be done.

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**3408.18 Tampering with private property.** The mover during all moves shall obey all laws pertaining to tampering with private property and vehicles on the street. Tampering with any wires or facilities belonging to private or public service companies is prohibited.

**3408.19 Reporting damage.** The building mover shall immediately report any damage done by the moving operation to any street, sidewalk, curb, utility equipment, tree sign, or other public or private property to the city engineer.

**3410.2 Applicability.** Structures existing prior to March 11, 1968, in which there is work involving additions, alterations, or changes of occupancy shall be made to conform to the requirements of this section or the provisions of Sections 3403 through 3407. The provisions in Sections 3410.2.1 through 3410.2.5 shall apply to existing occupancies that will continue to be, or are proposed to be, in Groups A, B, E, F, M, R, S, and U. These provisions shall not apply to buildings with occupancies in Group H or I.

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The following reductions in the minimum construction type allowed in Table 601 shall be allowed as provided in Section 403.3:

1. For buildings not greater than 420 feet (128 m) in height, Type IA construction shall be allowed to be reduced to Type IB.

**Exception:** The required fire-resistance rating of columns supporting floors shall not be allowed to be reduced.

2. In other than Groups F-1, M and S-1, Type IB construction shall be allowed to be reduced to Type IIA.

3. The height and area limitations of the reduced construction type shall be allowed to be the same as for the original construction type.

For buildings not greater than 420 feet (128 m) in height, the required fire-resistance rating of the fire barriers enclosing vertical shafts, other than exit enclosures and elevator hoistway enclosures, shall be reduced to 1 hour where automatic sprinklers are installed within the shafts at the top and at alternate floor levels.

The height limitation for buildings of Type IIA construction in Group R-2 shall be increased to nine stories and 100 feet (30,480 mm) where the building is separated by not less than 50 feet (15,240 mm) from any other building on the lot and from lot lines, the exits are segregated in an area enclosed by a 2-hour fire-resistance-rated fire wall and the first-floor construction has a fire-resistance rating of not less than 1 1/2 hours.

In Group R-2 occupancies containing more than 20 dwelling units or sleeping units, at least 2 percent but not less than one of then units shall be a Type A unit. All units on a site shall be considered to determine the total number of units and the required number of Type A units. Type A units shall be dispersed among the various classes of units.

**Exceptions:** 1. The number of Type A units is permitted to be reduced in accordance with Section 1107.7.

2. Existing structures on a site shall not contribute to the total number of units on a site.

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Accessible dwelling units and sleeping units shall be provided in accordance with Table 1107.6.1.1.

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Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is 45 inches (1143 mm) or more, spacing between vertical members shall not exceed 4 inches (102 mm). Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 inches (44 mm) in width.

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Maximum mesh size for chain link fences shall be a 2.25 inch square (57 mm square) unless the fence is provided with slats fastened at the top or the bottom which reduce the openings to no more than 1.75 inches (44 mm).

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Where the barrier is composed of diagonal members, the maximum opening formed by the diagonal members shall be no more than 1.75 inches (44 mm).

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Where a wall of a dwelling serves as part of the barrier, one of the following shall apply:

1.

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Doors with direct access to the pool through that wall shall be equipped with an alarm that produces an audible warning when the door and/or its screen, if present, are opened. The alarm shall be listed in accordance with UL 2017. The audible alarm shall activate within 7 seconds and sound continuously for a minimum of 30 seconds after the door and/or its screen, if present, are opened

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and be capable of being heard throughout the house during normal household activities. The alarm shall automatically reset under all conditions. The alarm shall be equipped with a manual means, such as touchpad or switch, to temporarily deactivate the alarm for a single opening. Such deactivation shall last for not more than 15 seconds. In dwellings not required to be Accessible, Type A or Type B units, the deactivation switch shall be located 54 inches (1372 mm) or more above the threshold of the door. In dwellings required to be Accessible, Type A or Type B units, the deactivation switch(es) shall be located at 54 inches (1372 mm) maximum and 48 inches minimum above the threshold of the door.

2.

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The pool shall be equipped with a power safety cover that complies with ASTM F 1346.

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Other means of protection, such as self-closing doors with self-latching devices, which are approved by the administrative authority, shall be

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accepted so long as the degree of protection afforded is not less than the protection afforded by Section 3109.4.1.8, Item 1 or 2.