

**TABLE OF CONTENTS**

**Connecticut State Building Code**

Repealed . . . . .	29-252-1—29-252-1c
State building code—2009 amendment to the 2005 Connecticut supplement . . . . .	29-252-1d



### **Connecticut State Building Code**

**Sec. 29-252-1.**

Repealed, October 16, 1989.

**Sec. 29-252-1a.**

Repealed, June 15, 1994.

**Sec. 29-252-1b.**

Repealed, May 1, 1999.

**Sec. 29-252-1c.**

Repealed, December 31, 2005.



## STATE BUILDING CODE– 2005 CONNECTICUT SUPPLEMENT

### 2009 AMENDMENT

#### **Sec. 29-252-1d. State Building Code – 2009 Amendment to the 2005 Connecticut Supplement**

The 2003 International Building Code, 2003 International Existing Building Code, 2003 International Plumbing Code, 2003 International Mechanical Code, 2006 International Energy Conservation Code and 2003 International Residential Code of the International Code Council, Inc. and the 2005 NFPA 70 National Electrical Code of the National Fire Protection Association Inc., except as amended, altered or deleted by this Connecticut Supplement, are hereby adopted by reference as the 2005 State Building Code. The requirements of the 2009 Amendment to the 2005 State Building Code shall apply to all work for which a permit application was made on or after the date of adoption.

Copies of the International Codes may be obtained from the International Code Council, Inc., 4051 W. Flossmoor Rd., Country Club Hills, IL 60478 (website: [www.iccsafe.org](http://www.iccsafe.org)). Copies of the 2005 NFPA 70 National Electrical Code may be obtained from the National Fire Protection Association Inc., 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101 (website: [www.nfpa.org](http://www.nfpa.org)). Copies of the 2005 Connecticut Supplement and the 2009 Amendment may be downloaded from [www.ct.gov/dps](http://www.ct.gov/dps).

#### **2009 AMENDMENT TO THE 2005 CONNECTICUT SUPPLEMENT**

**Add:** A section or subsection in the Connecticut Supplement preceded by (Add) indicates the addition of this section or subsection to the adopted referenced standard.

**Amd:** A section or subsection in the Connecticut Supplement preceded by (Amd) indicates the substitution of this section or subsection in the adopted referenced standard.

**Del:** A section or subsection in the Connecticut Supplement preceded by (Del) indicates the deletion of this section or subsection from the adopted referenced standard.

## AMENDMENTS TO THE 2003 INTERNATIONAL BUILDING CODE

### CHAPTER 1 - ADMINISTRATION

(Amd) **101.1 Title.** Section 29-252-1d, together with the 2003 International Building Code, 2003 International Existing Building Code, 2003 International Plumbing Code, 2003 International Mechanical Code, 2006 International Energy Conservation Code, 2003 International Residential Code and the 2005 NFPA 70 National Electrical Code shall be known as the 2005 State Building Code, hereinafter referred to as “the code” or “this code”.

(Amd) **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 (townhouses) not more than three stories above grade plane in height with a separate means of egress and their accessory structures shall comply with the 2003 International Residential Code.
2. Existing buildings undergoing repair, movement, alterations or additions and change of occupancy shall be permitted to comply with the 2003 International Existing Building Code. The choice to comply with this code or the 2003 International Existing Building Code shall be made by the permit applicant at the time of application for the building permit and shall be indicated on the construction documents in writing.

(Amd) **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 move a lot line that will affect any existing 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.

(Amd) **105.2 Work exempt from permit.** Exemption from the 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, statutes, regulations or ordinances of the jurisdiction. Permits shall not be required for the following work:

**Building:**

1. Fences not over 6 feet high.
2. Retaining walls that are not over 3 feet in height measured from finished grade at the bottom of the wall to finished grade at the top of the wall, unless supporting a surcharge or impounding Class I, II or III-A liquids.
3. Water tanks supported directly upon grade if the capacity does not exceed 5,000 gallons and the ratio of height to diameter or width does not exceed 2 to 1.
4. Sidewalks, driveways and on-grade concrete or masonry patios not more than 30 inches above adjacent grade and not over any basement or story below and which are not part of an accessible route.
5. Painting, papering, tiling, carpeting, cabinets, countertops and similar finish work not involving structural changes or alterations.
6. Temporary motion picture, television and theater stage sets and scenery.
7. Prefabricated swimming pools accessory to a Use Group R-3 occupancy, as applicable in Section 101.2, which are less than 24 inches deep, do not exceed 5,000 gallon capacity and are installed entirely above ground.
8. Shade cloth structures constructed for nursery or agricultural purposes and not including service systems.
9. Swings and other playground equipment.
10. Window awnings supported by an exterior wall which do not project more than 54 inches from the exterior wall and do not require additional support of Group R-3, as applicable in Section 101.2 and Group U occupancies.
11. Movable cases, counters and partitions not over 5 feet 9 inches in height and not containing any electrical, plumbing or mechanical equipment.
12. Portable grandstands or bleachers providing seating for fewer than 100 persons when located outside of a building.

(Add) **105.2.5 Federal agency exemptions.** A federal agency performing construction on federally owned land or on leased land totally under the control of the federal government shall not be required to obtain a building permit or a demolition permit from the local building official.

(Amd) **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 180 days. The building official is authorized to grant a single 180-day extension for demonstrated cause.

**Exception:** Tents, canopies and other membrane structures erected for a period of fewer than 180 days shall comply with Section 3103 of this code.

(Add) **109.3.8.1 Electrical inspections.** Required electrical inspections shall include installations of temporary services prior to activation; installation of underground piping and conductors after trenches are excavated and bedded and before backfill is put in place; rough inspections of installed wiring and components after the roof, framing, fireblocking and bracing are complete and prior to concealment; and final inspection after all work required by the permit is complete.

**(Add) SECTION 117 – VACANT BUILDINGS**

(Add) **117.1 General.** Temporarily unoccupied buildings, structures, premises or portions thereof, including tenant spaces, shall be safeguarded and maintained in accordance with this section.

(Add) **117.1.1 Abandoned premises.** Buildings, structures and premises for which an owner cannot be identified or located by dispatch of a certificate of mailing to the last known or registered address, which persistently or repeatedly become unprotected or unsecured; which have been occupied by unauthorized persons or for illegal purposes; or which present a danger of structural collapse or fire spread to adjacent properties shall be considered abandoned, declared unsafe and abated or demolished in accordance with this code.

(Add) **117.2 Safeguarding vacant premises.** Temporarily unoccupied buildings, structures, premises or portions thereof shall be secured and protected in accordance with this section.

(Add) **117.2.1 Security.** Exterior openings and interior openings accessible to other tenants or unauthorized persons shall be boarded, locked, blocked or otherwise protected to prevent entry by unauthorized individuals.

(Add) **117.2.2 Fire protection.** Fire alarm, sprinkler and standpipe systems shall be maintained in an operable condition at all times.

**Exceptions:**

1. When the premises have been cleared of all combustible materials and debris and, in the opinion of the code official, the type of construction, fire separation distance and security of the premises do not create a fire hazard.
2. Where buildings will not be heated and fire protection systems will be exposed to freezing temperatures, fire alarm and sprinkler systems are permitted to be placed out of service and standpipes are permitted to be maintained as dry systems (without an automatic water supply) provided

the building has no contents or storage, and windows, doors and other openings are secured to prohibit entry by unauthorized persons.

(Add) **117.2.3 Fire separation.** Fire-resistance-rated partitions, fire barriers and fire walls separating vacant tenant spaces from the remainder of the building shall be maintained.

(Add) **117.3 Removal of combustibles.** Persons owning, or in charge or control of, a vacant building or portion thereof, shall remove all accumulations of combustible materials and flammable or combustible waste or rubbish from such space. The premises shall be maintained clear of waste or hazardous materials.

**Exceptions:**

1. Buildings or portions of buildings undergoing additions, alterations, repairs or change of occupancy under a valid permit in accordance with this code.
2. Seasonally occupied buildings.

(Add) **117.4 Removal of hazardous materials.** Persons owning, or in charge or control of, a vacant building or portion thereof, shall remove all accumulations of hazardous materials as defined by this code.

### **CHAPTER 3 – USE AND OCCUPANCY CLASSIFICATION**

(Amd) **304.1 Business Group B.** Business Group B occupancy includes, among others, the use of a building or structure, or a portion thereof, for office, professional or service-type transactions, including storage of records and accounts. Business occupancies shall include, but not be limited to, the following:

Airport traffic control towers;

Animal hospitals, kennels and pounds;

Banks;

Barber and beauty shops;

Buildings or tenant spaces used for assembly purposes by fewer than 50 persons when they are not accessory to other occupancies;

Car wash;

Civic administration;

Clinic – outpatient;

Dry cleaning and laundries; pick-up and delivery stations and self-service;

Educational occupancies for students above the 12<sup>th</sup> grade;

Electronic data processing;

Laboratories; testing and research;

Motor vehicle showrooms;

Post offices;

Print shops;

Professional services (architects, attorneys, dentists, physicians, engineers, etc.);  
Radio and television stations;  
Telephone exchanges;  
Training and skill development not within a school or academic program.

(Add) **304.1.1 In-home Group B occupancies.** Customary in-home business occupancies located within a single-family dwelling unit, that provide professional services and employ a maximum of one employee within the dwelling in addition to the residents of the dwelling unit, shall be classified as a Group R-3 occupancy or shall be permitted to comply with the requirements of the 2003 International Residential Code portion of the 2005 State Building Code.

(Amd) **305.2 Day care.** The use of a building or structure, or portion thereof, for educational, supervision or personal care services for fewer than 24 hours per day for more than six children 3 years of age or older, shall be classified as a Group E occupancy.

(Add) **307.5.1 Consumer fireworks, Class 1.4G.** Sparklers and fountain display items permitted to be sold in Connecticut shall be exempt from the requirements of an H-3 occupancy under the following circumstances:

1. The total amount on display and in storage in any single control area complies with the maximum allowable quantities as listed in Table 307.7(1) of this code, or;
2. The new or existing retail store or retail sales facility complies with the provisions of NFPA 1124-06 for new stores and facilities as herein amended by the State of Connecticut.

Stores and facilities selling sparklers and fountain display items that are exempt from the requirements of an H-3 occupancy shall provide employee supervision of the fireworks display area; shall locate all fireworks a minimum of 5 feet from any building exit; and shall comply with the requirements of Part IV of the Connecticut State Fire Safety Code.

(Add) **307.5.2** The provisions of NFPA 1124-06 are amended for use in Connecticut as follows:

(Amd) **7.5.3 Storage Rooms.** Storage rooms containing consumer fireworks, regardless of size, in a new or existing permanent store shall be protected with an automatic sprinkler system installed in accordance with NFPA 13-02, Standard for the Installation of Sprinkler Systems, or separated from the retail sales area by a fire barrier having a fire resistance rating of not less than 1 hour. The quantity of fireworks permitted in storage shall not exceed 3,600 cubic feet, including packaging. Such storage shall be segregated into areas of 1,200 cubic feet or less, separated by a minimum of 4 feet of clear space.

(Amd) **308.3.1 Child care facility.** A child care facility that provides care on a 24-hour basis to more than five children less than 3 years of age shall be classified as Group I-2. Such a facility with five or fewer children less than 3 years of age shall be classified as Group R-3.

(Amd) **308.5.2 Child care facility.** A facility that provides supervision and personal care on less than a 24-hour-per-day basis for more than six children less than 3 years of age shall be classified as Group I-4.

**Exceptions:**

1. A child day care facility that provides care for more than six but no more than 100 children less than 3 years 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.
2. As defined in section 19a-77 of the Connecticut General Statutes, a family day care home that accommodates six or fewer children of any age shall be classified as Group R-3 or shall comply with the 2003 International Residential Code in accordance with Section 101.2. During the regular school year, a maximum of three additional children who are in school full-time, including the provider's own children, shall be permitted, except that if the provider has more than three children who are in school full-time, all of the provider's children shall be permitted.

(Amd) **310.1 Residential Group R.** Residential Group R includes, among others, the use of a building or structure, or portions thereof, for sleeping purposes when not classified as an Institutional Group I. Residential occupancies shall include the following:

**R-1** Residential occupancies where the occupants are primarily transient in nature (less than 30 days) including:

- Boarding houses;
- Hotels;
- Motels;
- Bed and breakfast establishments.

**R-2** Residential occupancies containing sleeping units or more than two dwelling units where the occupants are primarily permanent in nature, including:

- Apartment houses;
- Boarding houses (not transient);
- Convents;
- Dormitories;
- Fraternities and sororities;
- Monasteries;
- Hotels (not transient);
- Motels (not transient).

**R-3** Residential occupancies with independent means of egress where the occupants are primarily permanent in nature and not classified as R-1, R-2, R-4 or I and where buildings do not contain more than two dwelling units as applicable in Section 101.2, or adult and child care facilities that provide accommodations for six or fewer persons of any age for less than 24 hours per day. Adult and child care facilities that are within a single-family home are permitted to comply with the 2003 International Residential Code. R-3 occupancies shall allow not more than six lodgers or boarders where personal care services are not provided.

**R-4** Residential occupancies shall include buildings arranged for occupancy as residential care/assisted living facilities including more than three but not more than 16 occupants, excluding staff. Group R-4 occupancies shall meet the requirements for construction as defined for Group R-3 except as otherwise provided for in this code.

#### **CHAPTER 4 – SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY**

(Amd) **402.9 Smoke control.** Covered mall buildings of two or more stories shall have a smoke control system installed in accordance with Section 909.

(Amd) **404.4 Smoke control.** A smoke control system shall be installed in accordance with Section 909.

**Exceptions:** Smoke control is not required for atriums that connect only two stories.

(Add) **419.1.1 Preschool, kindergarten and first grade.** Rooms normally occupied by preschool, kindergarten or first-grade students shall be located on a level of exit discharge.

**Exception:** Rooms located on levels other than a level of exit discharge shall be permitted to be normally occupied by preschool, kindergarten or first-grade students where such rooms are provided with an independent means of egress dedicated for use by the preschool, kindergarten or first-grade students.

(Add) **419.1.2 Second grade.** Rooms normally occupied by second-grade students shall be located not more than one story above a level of exit discharge.

**Exception:** Rooms located on levels other than one story above a level of exit discharge shall be permitted to be normally occupied by second-grade students where such rooms are provided with an independent means of egress dedicated for use by the second-grade students.

## CHAPTER 5 – GENERAL BUILDING HEIGHTS AND AREAS

(Add) **506.4.1 Mixed occupancies.** In buildings of mixed occupancy, the allowable area per story ( $A_a$ ) shall be based on the most restrictive provisions for each occupancy when the mixed occupancies are treated according to Section 302.3.1. When the occupancies are treated according to Section 302.3.2 as separated occupancies, the maximum total floor area for a building shall be such that the sum of the ratios for each such area on all floors as calculated according to Section 302.3.2 shall not exceed 2 for two-story buildings and 3 for buildings three stories or higher.

## CHAPTER 7 – FIRE-RESISTANCE-RATED CONSTRUCTION

(Amd) **707.2 Shaft enclosure required.** Openings through a floor/ceiling assembly shall be protected by a shaft enclosure complying with this section.

### Exceptions:

1. A shaft enclosure is not required for openings totally within a residential dwelling unit and connecting three stories or less.
2. A shaft enclosure is not required in a building equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 for an escalator opening or a stairway which is not a portion of the means of egress protected according to Item 2.1 or 2.2:
  - 2.1 Where the area of the floor opening between stories does not exceed twice the horizontal projected area of the escalator or stairway and the opening is protected by a draft curtain and closely spaced sprinklers in accordance with NFPA 13-02. In other than Groups B and M, this application is limited to openings that do not connect more than three stories.
  - 2.2 Where the opening is protected by approved power-operated horizontal automatic shutters at every floor penetrated. The shutters shall be of noncombustible construction and have a fire-resistance rating of not less than 1.5 hours. The shutter shall be so constructed as to close immediately upon actuation of a smoke detector installed in accordance with Section 907.10 and shall completely shut off the well opening. Escalators shall cease operation when the shutter begins to close. The shutter shall operate at a speed of not more than 30 feet per minute and shall be equipped with a sensitive leading edge to arrest its progress where in contact with any obstacle, and to continue its progress on release there from.
3. A shaft enclosure is not required for penetrations by pipe, tube, conduit, wire, cable and vents protected in accordance with Section 712.4.

4. A shaft enclosure is not required for penetrations by ducts protected in accordance with Section 712.4. Grease ducts shall be protected in accordance with the 2003 International Mechanical Code.
5. A shaft enclosure is not required for floor openings complying with the provisions for covered malls or atriums.
6. A shaft enclosure is not required for approved masonry chimneys, where annular space protection is provided at each floor level in accordance with Section 717.2.5.
7. In other than Groups I-2 and I-3, a shaft enclosure is not required for a floor opening that complies with the following:
  - 7.1. Does not connect more than two stories.
  - 7.2. Is not part of the required means of egress system except as permitted in Section 1019.1.
  - 7.3. Is not concealed within the building construction.
  - 7.4. Is not open to a corridor in Group I and R occupancies.
  - 7.5. Is not open to a corridor in buildings not equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1 in any occupancy.
  - 7.6. Is separated from floor openings serving other floors by construction conforming to required shaft enclosures.
8. A shaft enclosure is not required for automobile ramps in open parking garages and enclosed parking garages constructed in accordance with Sections 406.3 and 406.4, respectively.
9. A shaft enclosure is not required for floor openings between a mezzanine and the floor below.
10. A shaft enclosure is not required for joints protected by a fire-resistant joint system in accordance with Section 713.
11. Where permitted by other sections of this code.

## CHAPTER 9 – FIRE PROTECTION SYSTEMS

(Amd) **903.2.1.2 Group A-2.** An automatic sprinkler system shall be provided for Group A-2 occupancies where one of the following conditions exists:

1. The fire area exceeds 5,000 square feet.

**Exception:** Existing restaurants in existing non-sprinklered buildings that were designated Use Group A-3 under a previous edition of the State Building Code that undergo addition, alteration or change of occupancy that results in an increase in the restaurant's fire area providing the proposed fire area does not exceed 12,000 square feet.

2. The fire area has an occupant load of 300 or more.
3. The fire area is located on a floor other than the level of exit discharge.

(Amd) **903.2.7 Group R.** An automatic sprinkler system installed in accordance with Section 903.3 shall be provided throughout all newly constructed buildings with a Group R fire area or in existing buildings that have a Group R fire area newly introduced by change of occupancy or by an addition.

**Exceptions:**

1. Group R-1 bed and breakfast establishments.
2. Existing buildings four stories or less in height undergoing a change of occupancy from a one- or two-family building or Group R-3 to Group R-2 containing not more than four dwelling units that does not involve an increase in height or area and where each dwelling unit has either:
  - 2.1 An exit door directly to the exterior at a level of exit discharge,
  - 2.2 Direct access to an exterior stair serving a maximum of two dwelling units on the same story, or
  - 2.3 Direct access to an interior stair serving only that dwelling unit and separated from all other portions of the building with 1-hour fire-resistance-rated fire barriers.
3. Existing buildings converted prior to June 15, 1994 from a one- or two-family building or Group R-3 to Group R-2 containing not more than four dwelling units.
4. Horizontal additions containing a newly introduced Group R occupancy that are added to existing buildings shall be required to have an automatic sprinkler system installed in the addition only if the addition is completely separated from the existing building by fire barriers with a minimum one-hour fire-resistance rating.

(Add) **903.2.7.1 Small residential care/assisted living facility alternative compliance.** An NFPA 13D automatic sprinkler system in accordance with Section 903.3.1.3 shall be permitted in a Group R-4 occupancy when all of the following conditions are met:

1. The facility is not in a building containing mixed occupancies,
2. The facility is limited to six or fewer occupants, excluding staff,
3. The building in which the facility is located is limited to two stories above grade and 40 feet in height,
4. The automatic sprinkler system is provided with a minimum 30-minute water supply,
5. All habitable and usable areas and closets are sprinklered, and
6. The sprinkler system is provided with valve supervision by one of the following methods:
  - 6.1. A single listed control valve that shuts off both domestic and sprinkler system water supply and a separate valve that shuts off the domestic system only.
  - 6.2. Electrical supervision connected to the facility's fire alarm system.

6.3. Valve closure that causes the sounding of an audible alarm audible throughout the premises.

(Add) **903.3.1.1.2 Vertical openings.** Closely spaced sprinklers and draft stops are not required around floor openings permitted to be unenclosed by this code unless the closely spaced sprinklers and draft stops are being utilized in lieu of an enclosure as specified by Exception 2.1 to Section 707.2.

(Amd) **903.3.1.2 NFPA 13R sprinkler systems.** Where allowed in buildings of Group R, up to and including four stories above grade and 60 feet in height, automatic sprinkler systems shall be installed throughout in accordance with NFPA 13R.

(Add) **903.3.1.2.2 Mixed occupancies.** Buildings containing occupancies other than Group R shall not be permitted to utilize an NFPA 13R sprinkler system.

**Exception:** Buildings that comply with Section 508.2 that contain only Group R occupancies above the horizontal assembly shall be permitted to utilize an NFPA 13R sprinkler system above the horizontal assembly provided such occupancy complies with Section 903.3.1.2.

(Amd) **903.3.5.1.1 Limited area sprinkler systems.** Limited area sprinkler systems serving six sprinklers or less in any fire area are permitted to be connected to the domestic service where a wet automatic standpipe is not available. Limited area sprinkler systems connected to domestic water supplies shall comply with each of the following requirements:

1. Valves shall not be installed between the domestic water riser control valve and the sprinklers.

**Exception to Item 1:** An approved indicating control valve supervised electrically or locked or secured in the open position shall be permitted.

2. The domestic service shall be designed and installed in accordance with NFPA 13-02 or NFPA 13D-02.

(Amd) **903.3.5.2 Secondary water supply.** A secondary on-site water supply equal to the hydraulically calculated sprinkler demand, including the hose stream requirement, shall be provided for high-rise buildings in Seismic Design Category D, E or F as determined by this code. The secondary water supply shall have a duration of not less than 30 minutes.

**Exception:** Existing buildings.

(Add) **905.2.1 Piping design.** The riser piping, supply piping and the water service piping shall be sized to maintain a residual pressure of at least 100 pounds per square inch (psi) at the topmost outlet of each riser

while flowing the minimum quantities of water specified based upon a pressure of 150 psi available at the fire department connection.

**Exception:** In buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or Section 903.3.1.2 and where the highest floor level is not more than 150 feet above the lowest level of fire department vehicle access, Class I standpipes shall have an automatic or manual-wet supply.

(Amd) **905.3.6 Helistops and heliports.** Buildings with a helistop or heliport that are equipped with a standpipe shall extend the standpipe to the roof level on which the helistop or heliport is located. All portions of the helistop and heliport area shall be within 150 feet of a 2.5-inch outlet on a Class I or Class III standpipe.

(Add) **906.1.1 Group R-1 bed and breakfast establishments.** In Group R-1 bed and breakfast establishments, portable fire extinguishers shall be required to be located in kitchens. All portable fire extinguishers shall be selected, installed and maintained in accordance with NFPA 10-02. A listed residential range top extinguisher unit or an approved commercial kitchen hood with a listed, approved automatic fire suppression system shall be permitted to be installed in lieu of the installation of a portable fire extinguisher in the kitchen.

(Add) **906.1.2 Group F occupancies.** Portable fire extinguishers shall be selected, installed and maintained in Group F occupancies in accordance with NFPA 10-02.

(Add) **907.9.3.1 Alarm transmission.** Where required by Section 907.9.3, the fire alarm system shall be arranged to automatically transmit the alarm to the municipal fire department via any of the following means in accordance with NFPA 72-02:

1. Auxiliary alarm system;
2. Central station connection;
3. Proprietary system; or
4. Remote station connection.

(Amd) **909.16 Fire-fighter's smoke control panel.** A fire-fighter's smoke control panel to be used solely for fire department emergency response purposes shall be provided and shall include manual control or override of automatic control for mechanical smoke control systems. The panel shall be located in a fire command center complying with Section 911 in high-rise buildings. In all other buildings, the fire-fighter's smoke control panel shall be installed in an approved location adjacent to the fire alarm control panel. The fire-fighter's smoke control panel shall comply with Sections 909.16.1 to 909.16.3, inclusive.

(Amd) **910.1 General.** Where required by this code or otherwise installed, smoke and heat vents or mechanical smoke exhaust systems and draft curtains shall conform to the requirements of this section.

**Exceptions:**

1. Frozen food warehouses used solely for storage of Class I and II commodities where protected by an approved automatic sprinkler system.

2. Where areas of buildings are equipped with early suppression fast-response (ESFR) sprinklers, automatic smoke and heat vents shall not be required within these areas.

**CHAPTER 10 – MEANS OF EGRESS**

(Amd) **1003.2 Ceiling height.** The means of egress shall have a ceiling height of not less than 7 feet 6 inches.

**Exceptions:**

1. Sloped ceilings in accordance with Section 1208.2.
2. Ceilings of dwelling units and sleeping units within residential occupancies in accordance with Section 1208.2.
3. Allowable projections in accordance with Section 1003.3.
4. Stair headroom in accordance with Section 1009.2.
5. Door height in accordance with Section 1008.1.1.

(Amd) **1003.3.2 Free-standing objects.** A free-standing object mounted on a post or pylon shall not overhang that post or pylon more than 4 inches where the lowest point of the leading edge is more than 27 inches and less than 80 inches above the walking surface. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches, the lowest edge of such sign or obstruction shall be 27 inches maximum or 80 inches minimum above the finish floor or ground.

**Exception:** This requirement shall not apply to sloping portions of handrails serving stairs and ramps.

(Add) **1003.8 Security device.** Any security device or system that emits any medium that could obscure a means of egress in any building, structure or premises shall be prohibited.

(Add) **1003.9 Mirrors.** Mirrors shall not be placed on exit doors. Mirrors shall not be placed in or adjacent to any exit in such a manner as to confuse the direction of egress travel.

(Amd) **1004.1.2 Number by Table 1004.1.2.** The number of occupants computed at a rate of one occupant per unit of area as prescribed in Table 1004.1.2.

**Exception:** Day care occupancies shall be calculated at a rate of one occupant per 35 square feet of net area.

(Amd) **1005.1 Minimum required egress width.** The means of egress width shall not be less than required by this section. The total width of means of egress in inches shall not be less than the total occupant load served by the means of egress multiplied by the factors in Table 1005.1 and not less than specified elsewhere in this code. The maximum capacity required from any story of a building shall be maintained to the termination of the means of egress.

**Exception:** Means of egress complying with Section 1024.

(Del) **1005.1.1 Balanced egress capacity.** Delete section in its entirety and replace with:

(Add) **1005.1.1 Multiple means of egress.** Multiple means of egress in buildings requiring more than one exit and in rooms or spaces requiring more than one means of egress shall be sized so that the loss of any one means of egress shall not reduce the required capacity of the remaining means of egress to a fraction less than that determined as follows:

$$\frac{(R-1)}{R} = C$$

where:

R = the number of required means of egress from a room, space or story as determined by Section 1014 or Section 1018

C = the minimum fraction of required egress capacity remaining after the loss of any one means of egress

(Add) **1006.3.1 When required.** The emergency means of egress illumination system shall be arranged to provide the required illumination automatically in the event of any interruption of normal lighting due to any of the following:

1. Failure of a public utility or other outside electrical power supply.
2. Opening of a circuit breaker or fuse.
3. Manual acts including accidental opening of a switch controlling normal lighting facilities.

(Amd) **1009.11.2 Intermediate handrails.** Intermediate handrails are required for stairs with a required width exceeding 75 inches so that all portions of the stairway width required for egress capacity are within 30 inches of a handrail. On monumental stairs, handrails shall be located along the most direct path of egress travel.

(Amd) **1010.7.1 Ramp surface.** The surface of ramps shall be of slip-resistant materials that are securely attached and in compliance with the provisions of Section 302.3 of the ICC/ANSI A117.1-2003 standard.

(Del) **1010.9 Edge protection.** Delete section and subsections in their entirety and substitute with:

(Add) **1010.9 Edge protection.** Edge protection for ramps shall be in accordance with Section 405.9 of the ICC/ANSI A117.1-2003 standard.

(Add) **1011.1.1 Floor proximity exit signs.** Where exit signs are required by Section 1011.1 of this code, exit access doors and exit doors shall additionally be marked by floor proximity exit signs in Group A occupancies with an occupant load of more than 300, Group B medical occupancies, Group I-1 occupancies, Group I-2 occupancies, Group R-1 hotels and motels and Group R-2 dormitories.

(Add) **1011.1.1.2 Approval.** Floor proximity exit signs shall be listed and labeled in accordance with UL 924, Emergency Lighting and Power Equipment, Edition 9, dated February 24, 2006.

(Add) **1011.1.2 Accessible exits.** Where exit signs are required by Section 1011.1 of this code, accessible exit doors at the level of exit discharge that lead directly to accessible paths of exit discharge shall additionally be marked by the International Symbol of Accessibility. Such symbol shall be not less than 6 inches high and shall be incorporated into the required exit sign or shall be located directly adjacent to it. Such symbol shall meet the requirements of Section 1011.

(Amd) **1012.2 Height.** Guards shall form a protective barrier not less than 42 inches high, measured vertically above the leading edge of the tread or the adjacent walking surface.

**Exceptions:**

1. For occupancies in Group R-1 bed and breakfast establishments and in Group R-3, and within individual dwelling units in occupancies in Group R-2, guards whose top rail also serves as a handrail shall have a height not less than 34 inches and not more than 38 inches measured vertically from the leading edge of the stair tread nosing.
2. For occupancies in Group R-1 bed and breakfast establishments, level guards shall be not less than 36 inches high, measured vertically above the adjacent walking surface.
3. The height in assembly seating areas shall be in accordance with Section 1024.14.

(Amd) **1012.3 Opening limitations.** Open guards shall have balusters or ornamental patterns such that a 4-inch diameter sphere cannot pass through any opening up to a height of 34 inches. From a height of 34 inches to 42 inches above the adjacent walking surfaces, a sphere 8 inches in diameter shall not pass.

**Exceptions:**

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 6 inches in diameter cannot pass through the opening.
2. At elevated walking surfaces for access to and use of electrical, mechanical or plumbing systems or equipment, guards shall have horizontal rails, balusters or be of solid material such that a sphere with a diameter of 21 inches cannot pass through any opening.
3. In areas that are not open to the public, within occupancies in Group I-3, F, H or S, balusters, horizontal intermediate rails or other construction shall not permit a sphere with a diameter of 21 inches to pass through any opening.
4. In assembly seating areas, guards at the end or aisles where they terminate at a fascia of boxes, balconies and galleries shall have balusters or ornamental patterns such that a 4-inch-diameter sphere cannot pass through any opening up to a height of 26 inches. From a height of 26 inches to 42 inches above the adjacent walking surfaces, a sphere 8 inches in diameter shall not pass.
5. In Group R-1 bed and breakfast establishments, guards shall have balusters or ornamental patterns such that a 6-inch-diameter sphere cannot pass through any opening.

(Amd) **1013.2 Egress through adjoining spaces.** Egress from a room or space shall not pass through adjoining or intervening rooms or areas, except where such adjoining rooms or areas are accessory to the area served; are not a high-hazard occupancy and provide a discernable path of egress travel to an exit. Egress shall not pass through kitchens, storage rooms, closets or spaces used for similar purposes. An exit access shall not pass through a room that can be locked to prevent egress. Means of egress from dwelling units or sleeping areas shall not lead through other dwelling units, sleeping areas, toilet rooms or bathrooms.

**Exceptions:**

1. Means of egress are not prohibited through a kitchen area serving adjoining rooms constituting part of the same dwelling unit or sleeping unit.
2. Means of egress are not prohibited through adjoining or intervening rooms or spaces in a Group H occupancy when the adjoining or intervening rooms or spaces are of the same or a lesser hazard occupancy group.
3. Not more than 50 percent of the required exit access may travel through stockrooms in Group M occupancies when the stock is of the same hazard classification as that found in the main retail area; when the stockroom is not subject to locking from the egress side; and when there is a 44-inch

wide aisle defined by full or partial height fixed walls or similar fixed construction that will maintain the required width and lead directly from the retail area to the exit without obstructions.

(Add) **1023.2.1 Remoteness.** Where two or more doors leading to exit discharge are required, a minimum of two such doors shall be placed a distance apart equal to not less than one-third of the length of the maximum overall diagonal dimension of the building served, measured in a straight line between doors. Additional doors leading to exit discharge shall be arranged a reasonable distance apart so that if one becomes blocked, the others will be available.

(Amd) **1024.2 Assembly main exit.** In Group A occupancies that are newly constructed, have an increase in the number of occupants by addition or alteration or are created by change of occupancy and that have a single main entrance, such main entrance shall also be the main exit. The main entrance/exit shall be of sufficient width to accommodate not less than two-thirds of the occupant load, but such width shall not be less than the total required width of all means of egress leading to the exit.

(Amd) **1025.3 Maximum height from floor.** Emergency escape and rescue openings shall have the bottom of the clear opening not greater than 44 inches measured from the floor.

**Exception:** The 44-inch maximum height shall be permitted to be measured vertically above a fixed, permanent platform, step or steps whose minimum width shall equal or exceed the operable width of the opening and shall be centered on such opening and which shall comply with Section 1009.3.

#### (Add) **SECTION 1026 FLOOR PROXIMITY EGRESS PATH MARKING**

(Add) **1026.1 Where required.** In addition to means of egress illumination required by Section 1006, floor proximity egress path marking systems or devices shall be required in exit access corridors serving an occupant load greater than 30 in the following newly constructed occupancies:

1. Group A occupancies with a total occupant load greater than 300.
2. Group B medical occupancies.
3. Group E occupancies.
4. Group I-1 occupancies.
5. Group I-2 occupancies.
6. Group R-1 hotels and motels.
7. Group R-2 dormitories.

**Exceptions:**

1. Group E occupancies where each classroom has at least one door directly to the exterior and rooms for assembly purposes have at least one-half of the required means of egress doors opening directly to the exterior. Exterior doors specified in this exception are required to be at ground level.
2. In corridors or hallways located within Group R-1 and R-2 sleeping units or dwelling units.
3. Such systems shall not be required in existing buildings of any occupancy including those undergoing repair, addition, alteration or change of occupancy.

(Add) **1026.2 Size and location.** Where required by Section 1026.1, floor proximity egress path marking systems or devices shall be located on the walls of exit access corridors within 18 inches of the finished floor to provide a visible delineation of the path of travel along the exit access corridor. Such markings or devices shall be essentially continuous, except as interrupted by doorways, intersecting hallways and corridors or other similar architectural features. Where such systems or devices are photoluminescent, they shall be a minimum of 1 inch and a maximum of 2 inches in width.

(Add) **1026.3 Device or system requirements.** Floor proximity egress path marking systems or devices shall be listed and labeled and installed in accordance with the manufacturer's installation requirements. Such systems shall not incorporate arrows, chevrons, signs or alternating lighting patterns designed or intended to lead an occupant to any one specific exit in preference over another exit.

**Exception:** Systems incorporating arrows, chevrons, signs or alternating lighting patterns designed or intended to lead an occupant in any one specific direction shall be permitted in dead end corridors.

(Add) **1026.4 Materials.** Floor proximity egress path marking systems or devices shall be permitted to be made of any material, including paint. Such materials shall include, but not be limited to: self-luminous materials; photoluminescent materials; and electrical photo luminescent materials. Materials shall comply with either:

1. UL 1994 Standard for Luminous Egress Path Marking Systems, Edition 3, dated January 30, 2004, or
2. ASTM E 2072, except that the charging source shall be 1 fc (10 lux) of fluorescent illumination for 60 minutes, and the minimum luminance shall be 5 millicandelas per square meter after 90 minutes.

(Add) **1026.5 Illumination.** Floor proximity egress path marking systems or devices shall be continuously illuminated or shall illuminate within 10 seconds in the event of power failure. Illumination shall be maintained for a period of not less than 90 minutes following loss of power to the corridor within which the system or device is located.

(Add) **1026.5.1 Photoluminescent systems or devices.** Corridors where photoluminescent floor proximity exit path marking systems or devices are installed shall be provided with the minimum means of egress illumination required by Section 1006 for at least 60 minutes prior to periods when the building is occupied.

## **CHAPTER 11 - ACCESSIBILITY**

(Amd) **1104.4 Multilevel buildings and facilities.** At least one accessible route shall connect each accessible level, including mezzanines, in multi-level buildings and facilities.

### **Exceptions:**

1. An accessible route is not required to stories and mezzanines that comply with Sections 1103.2.15 and 1103.2.16, respectively.
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.

(Amd) **1106.5 Van spaces.** For every six or fraction of six accessible parking spaces, at least one shall be a van-accessible parking space. Each public parking garage or terminal shall have a minimum of two van-accessible parking spaces complying with this section.

(Amd) **1107.4 Accessible route.** At least one accessible route shall connect accessible building or facility entrances with the primary entrance of each accessible unit, Type A unit and Type B unit within the building or facility and with those exterior and interior facilities that serve the units.

**Exception:** If the slope of the finished ground level between accessible facilities and buildings exceeds one unit vertical in 12 units horizontal (1:12), or where physical barriers prevent the installation of an accessible route, a vehicular route with parking that complies with Section 1106 at each public or common use facility or building is permitted in place of the accessible route.

(Amd) **1107.6.2.1.1 Type A units.** In occupancies in Group R-2 containing more than 20 dwelling units or sleeping units, at least 10 per

cent of the units shall be a Type A unit in accordance with ICC/ANSI A117.1-2003. All R-2 units on the site, within the building or within the complex, 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 1107.7.5.
2. Existing Group R-2 buildings or structures on a site or within a complex shall not contribute to the total number of units on a site.

(Del) **1107.6.3.1 Townhouses.** Delete section in its entirety without substitution.

(Del) **1107.7.2 Multistory units.** Delete section and subsections in their entirety and replace with:

(Add) **1107.7.2 Multistory units.** A multistory dwelling or sleeping unit that is not provided with elevator service is not required to be a Type B unit. Where a multistory unit is provided with external elevator service to only one floor, the floor provided with elevator service shall be the primary entrance to the unit and shall comply with the requirements for a Type B unit, providing provisions for living, sleeping, eating, cooking and a complete toilet and bathing facility on that floor. Where a multistory unit is provided with external elevator service to more than one floor of the unit, one floor shall be the primary entrance to the unit and shall comply with the requirements for a Type B unit, providing provisions for living, sleeping, eating, cooking and a complete toilet and bathing facility on that floor.

(Amd) **1109.2.2.1 Pull handle.** Where accessible water closet compartments or single occupancy toilet rooms are provided, the compartment or room doors shall have a pull handle mounted 6 inches from the hinge side on the compartment or room side of the door. This handle shall be between 26 inches and 36 inches from the floor and shall meet the requirements of Section 404.2.6 of ICC/ANSI A117.1-2003.

**Exception:** Compartments or rooms with self-closing, self-latching doors.

(Amd) **1109.13 Controls, operating mechanisms and hardware.** Controls, operating mechanisms and hardware intended for operation by the occupant, including switches that control lighting and ventilation, and electrical convenience outlets, in accessible spaces, along accessible routes or as parts of accessible elements shall be accessible.

**Exceptions:**

1. Operable parts that are intended for use only by service or maintenance personnel shall not be required to be accessible.
2. Electrical or communication receptacles serving a dedicated use shall not be required to be accessible.
3. Where two or more outlets are provided in a kitchen above a length of countertop that is required to be accessible that is uninterrupted by a sink or appliance, one outlet shall not be required to be accessible.
4. Floor electrical receptacles shall not be required to be accessible.
5. HVAC diffusers shall not be required to be accessible.
6. Except for light switches, where redundant controls are provided for a single element, one control in each space shall not be required to be accessible.
7. Access doors or gates in barrier walls and fences protecting pools, spas and hot tubs shall be permitted to have operable parts of the release of latch on self-latching devices at 54 inches maximum and 48 inches minimum above the finished floor or ground, providing the self-latching devices are not also self-locking devices, operated by means of a key, electronic opener or integral combination lock.

(Del) **1109.15 Stairways.** Delete section in its entirety without substitution.

## **CHAPTER 16 – STRUCTURAL DESIGN**

(Amd) **1609.2 Definitions.** Amend the following definition:

**WIND-BORNE DEBRIS REGION.** Areas where the basic wind speed in accordance with Appendix K is 120 mph.

## **CHAPTER 17 – STRUCTURAL TESTS AND SPECIAL INSPECTIONS**

(Amd) **1704.2.2 Fabricator approval.** Special inspections required by Section 1704.2.1 are not required where the work is done on the premises of the following certified fabricators:

1. A fabricator of structural steel that is certified by the American Institute of Steel Construction Inc.'s Fabricator Certification Program.
2. A fabricator of precast concrete that is certified by the Precast/Prestressed Concrete Institute's Plant Certification Program.
3. A fabricator of cold-formed steel trusses that is certified by the Truss Plate Institute's Quality Assurance Program.
4. A fabricator of wood trusses that is certified by the Truss Plate Institute's Quality Assurance Program.

Such fabricators shall not be exempt from special inspections required by Sections 1704.3, 1704.4 or 1704.6. At the completion of fabrication, the certified fabricator shall submit a certificate of compliance to the building official stating that the work was performed in accordance with the approved construction documents.

## CHAPTER 18 – SOILS AND FOUNDATIONS

(Amd) **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 from frost by one or more of the following methods:

1. Extending a minimum of 42 inches below finished grade;
2. Construction in accordance with ASCE 32-01; or
3. Erecting on solid rock.

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

1. Classified in importance category I (see Table 1604.5);
2. Area of 600 square feet or less; and
3. Eave height of 10 feet or less.

Footings shall not be cast on frozen soil.

(Add) **1806.2 Guards.** Retaining walls with a difference in finished grade from the top of the wall to the bottom of the wall that is greater than 4 feet shall be provided with guards complying with Sections 1012.2 and 1012.3 when there is a walking surface, parking lot or driveway on the high side located closer than 2 feet to the retaining wall. For the purposes of this section, grass, planting beds or landscaped areas shall not be considered a walking surface.

## CHAPTER 27 – ELECTRICAL

(Add) **2702.2.20 Electric fire pumps.** Buildings provided with standby electrical power for the purpose of continuing operations or occupancy shall provide Type 60 standby power for any electric fire pump installed to provide an adequate water supply or minimum operating pressure to a required automatic sprinkler system.

## CHAPTER 30 – ELEVATORS AND CONVEYING SYSTEMS

(Amd) **3006.4 Machine rooms and machinery spaces.** Elevator machine rooms and machinery spaces shall be enclosed with construction having a fire-resistance rating not less than the required rating of the hoistway enclosure served by the machinery. Openings

shall be protected with assemblies having a fire-resistance rating not less than that required for the hoistway enclosure doors.

**Exception:** Machine rooms and enclosed machine spaces that do not share a wall with the hoistway and are located remotely from the hoistway shall be permitted to be protected by an automatic fire-extinguishing system or be separated from the remainder of the building by fire barriers having a fire-resistance rating of not less than one hour with ¾-hour-rated opening protectives.

## CHAPTER 31 – SPECIAL CONSTRUCTION

### (Amd) SECTION 3103 TEMPORARY TENTS, CANOPIES AND MEMBRANE STRUCTURES

(Amd) **3103.1 General.** The provisions of this section shall apply to tents, canopies and other membrane structures, erected for a period of less than 180 consecutive calendar days out of any 365 consecutive calendar days. Those erected for a longer period of time shall comply with applicable sections of this code.

**Exception:** The Connecticut Tent and Portable Shelter Code shall apply to the following tents and portable shelters when such tents and portable shelters are not erected on the grounds of one- and two-family dwellings for private parties and no admission is charged:

1. Tents erected for less than 180 consecutive calendar days out of any 365 consecutive calendar days with an occupancy of 100 or more persons or covering an area in excess of 1,200 square feet.
2. Portable shelters erected for less than 180 consecutive calendar days out of any 365 consecutive calendar days with an occupancy of 100 or more persons.

(Amd) **3103.1.1 Permit required.** All temporary structures that cover an area in excess of 120 square feet, including all connecting areas or spaces with a common means of egress or entrance that are used or intended to be used for the gathering together of 10 or more persons, shall not be erected, operated or maintained for any purpose without obtaining a permit from the code official.

**Exceptions:**

1. Tents less than 350 square feet total area.
2. Tents 900 square feet and smaller in total area when occupied by fewer than 50 persons, which have no heating appliances, no installed electrical service and are erected for fewer than 72 hours.
3. Tents used exclusively for recreational camping purposes.

(Del) **3104.11 Ventilation.** Delete section in its entirety without substitution.

(Amd) **3105.3 Design and construction.** Awnings and canopies shall be designed and constructed to withstand wind or other lateral loads and live loads as required by Chapter 16 with due allowance for shape, open construction and similar features that relieve the pressures or loads. Structural members shall be protected to prevent deterioration. Awnings shall have frames of noncombustible material, fire-retardant-treated wood, wood of Type IV size, or 1-hour construction with combustible or noncombustible covers and shall be either fixed, retractable, folding or collapsible.

**Exceptions:**

1. Fixed awnings shall not be required to be designed to resist wind loads in excess of 90 mph.
2. Retractable awnings shall not be required to be designed to resist wind or snow loads.

(Amd) **3107.1 General.** Signs shall be designed, constructed and maintained in accordance with Appendix H of this code.

(Add) **3109.1.1 Health Department regulations.** No person shall construct, substantially alter or reconstruct a swimming pool until the construction documents and water discharge provisions have been approved by the Department of Public Health, in accordance with the regulations adopted pursuant to section 19a-36 of the Connecticut General Statutes.

**Exception:** Swimming pools accessory to owner-occupied, detached one- two- or three-family residences and swimming pools accessory to a single one-family townhouse where the pool is intended to be used exclusively by the owner and invited guests.

(Amd) **3109.4.1.1 Openings.** Openings in residential swimming pool barriers as defined by the exception to Section 3109.1.1 shall not allow passage of a 4-inch-diameter sphere. Openings in public swimming pool barriers shall not allow passage of a 2-inch diameter sphere.

(Add) **3109.4.1.7.1 Gates in accessible routes.** Access doors or gates in barrier walls and fences protecting pools, spas and hot tubs shall be permitted to have operable parts of the release of latch on self-latching devices at 54 inches maximum and 48 inches minimum above the finished floor or ground, providing the self-latching devices are not also self-locking devices, operated by means of a key, electronic opener or integral combination lock.

(Amd) **3109.5 Entrapment avoidance.** Entrapment avoidance for newly constructed pools and spas shall be in accordance with Sections 3109.5.1 to 3109.5.5, inclusive. Pools and spas undergoing structural

alterations or repairs, or alterations or repairs to the pool circulation system shall comply with Sections 3109.5.2 and 3109.5.3.

(Add) **3109.5.1 General.** Suction outlets shall be designed to produce circulation throughout the pool, spa or hot tub. Single outlet systems, such as automatic vacuum cleaner systems, or multiple suction outlets whether isolated by valves or otherwise shall be protected against user entrapment.

(Add) **3109.5.2 Suction fittings.** All pool and spa suction outlets shall be provided with a cover that conforms with ANSI/ASME A112.19.8-2007 or with an approved channel drain system.

**Exception:** Surface skimmers.

(Add) **3109.5.2.1 Fitting maintenance.** Any pool, spa or hot tub with a broken, loose or missing suction outlet cover shall be immediately placed out of service until repairs are completed and approved.

(Add) **3109.5.3 Atmospheric vacuum relief system required.** All pool and spa single or multiple outlet circulation systems other than pools equipped only with surface skimmers shall be equipped with atmospheric vacuum relief. Such vacuum relief systems shall include at least one approved or engineered method of the following type:

1. Safety vacuum release system conforming to ASME A112.19.17, or
2. An approved gravity drainage system operating through a surge tank.

(Add) **3109.5.4 Dual drain separation.** Single or multiple pump circulation systems shall be provided with a minimum of two (2) suction outlets of the approved type. A minimum horizontal or vertical distance of three (3) feet shall separate such outlets. The separation distance shall be measured from near point of opening to near point of opening. These suction outlets shall be piped so that water is drawn through them simultaneously, distributed as evenly as possible, through a vacuum relief protected line to the pump or pumps.

(Add) **3109.5.5 Pool cleaner fittings.** Where provided, vacuum or pressure cleaner fitting(s) shall be located in an accessible position(s) at least six (6) and not greater than twelve (12) inches below the minimum operational water level or as an attachment to the skimmer(s).

## CHAPTER 33 – SAFEGUARDS DURING CONSTRUCTION

(Add) **3303.7 Demolition of structures.** The demolition of structures shall be conducted in accordance with the State Demolition Code as found in chapter 541 of the Connecticut General Statutes and with Chapter 33 of this code.

## CHAPTER 34 – EXISTING STRUCTURES

(Amd) **3403.4 Stairways.** An alteration or the replacement of an existing stairway in an existing structure shall not be required to comply with the maximum riser height and minimum tread depth requirements of a new stairway as outlined in Section 1009.3 where the existing space and construction will not allow a reduction in pitch or slope.

(Add) **3403.5 Means of egress.** In addition to the requirements of this code, means of egress in existing buildings undergoing additions, alterations or repairs shall meet the requirements of the provisions of Part IV of the Connecticut State Fire Safety Code for the proposed occupancy.

(Amd) **3406.3 Stairways.** Existing stairways in an existing structure shall not be required to comply with the maximum riser height and minimum tread depth requirements of a new stairway as outlined in Section 1009.3 where the existing space and construction will not allow a reduction in pitch or slope.

(Add) **3406.4 Means of egress.** In addition to the requirements of this code, means of egress in existing buildings undergoing change of occupancy shall meet the requirements of the provisions of Part IV of the Connecticut State Fire Safety Code for the proposed occupancy.

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

**Exception:** Buildings or structures moved into or within the jurisdiction shall be permitted to comply with the 2003 International Existing Building Code for relocated or moved buildings or structures.

(Amd) **3409.1 Scope.** The provisions of Sections 3409.1 through 3409.8 apply to maintenance, change of occupancy, additions and alterations to existing buildings, including those identified as historic buildings.

**Exception:** Type B dwelling or sleeping units required by Section 1107 are not required to be provided in existing buildings and facilities undergoing alteration or in the existing portion of buildings to which additions are being made.

(Amd) **3409.3 Change of occupancy.** Existing buildings, or portions thereof, that undergo a change of group or occupancy shall have all of the following accessible features:

1. At least one accessible building entrance.
2. At least one accessible route from an accessible building entrance to primary function areas.
3. Signage complying with Section 1110.

4. Accessible parking, where parking is being provided.
5. At least one accessible passenger loading zone, when passenger loading zones are provided.
6. At least one accessible route connecting accessible parking and accessible passenger loading zones to an accessible entrance.
7. At least one accessible toilet room or toilet and bathing facility per gender complying with Section 1109.2.
8. At least one accessible means of egress complying with Section 1007.
9. Type A and Type B units as required by Section 1107.

Where it is technically infeasible as defined in Section 3402.1 to comply with the new construction standards for any of these requirements for a change of group or occupancy, the above items shall conform to the maximum extent technically feasible. Change of group or occupancy that incorporates any alterations or additions shall comply with this section and Sections 3409.4, 3409.5, 3409.6 and 3409.7.

(Amd) **3409.7.7 Dwelling or sleeping units.** Where I-1, I-2, I-3, R-1, R-2 or R-4 dwelling or sleeping units are being altered or added, the requirements of Section 1107 for Accessible, Type A or Type B units and Chapter 9 for accessible alarms apply only to the quantity of spaces being altered or added.

(Add) **3410.1.1 Means of egress.** In addition to the requirements of this code, means of egress in existing buildings utilizing the compliance alternatives of Section 3410 shall meet the requirements of the provisions of Part IV of the Connecticut State Fire Safety Code for the proposed occupancy.

**CHAPTER 35 – REFERENCED STANDARDS**

Add the following standard under ASME:  
 ANSI/ASME A112.19.8-2007 Suction Fittings for Use in Swimming  
 Pools, Wading Pools, Spas and Hot Tubs.....3109.5.2

(Amd) ICC International Code  
 Council, Inc.  
 4051 W. Flossmoor Rd.  
 Country Club Hills, IL  
 60478

Standard reference number	Title	Referenced in code section number
ICC/ANSI A117.1—03	Accessible and Usable Buildings and Facilities	.....406.2.2, 907.9.1.3, 1007.6.5, 1010.1, 1010.6.5, 1010.9, 1011.3, 1101.2, 1102.1, 1103.2.13, 1106.6, 1107.2, 1109.2.2, 1109.3, 1109.4, 1109.8, 1109.15, 3001.3, 3409.5, 3409.7.2, 3409.7.3
ICC 300—02	ICC Standard on Bleachers, Folding and Telescopic Seating, and Grandstands	.....1024.1.1
IEBC—03	International Existing Building Code™	.....101.2
IECC—06	International Energy Conservation Code®	.....101.4.7, 1203.3.2, 1301.1.1, 1403.2
IMC—03	International Mechanical Code®	.....101.4.3, 201.3, 307.9, 406.4.2, 406.6.3, 406.6.5, 409.3, 412.4.6, 414.1.2, 414.1.2.1, 414.1.2.2, 414.3, 415.7.1.4, 415.7.2, 415.7.2.8, 415.7.3, 415.7.4, 415.9.11.1, 416.3, 603.1, 707.2, 716.2.2, 716.5.4, 716.6.1, 716.6.2, 716.6.3, 717.5, 719.1, 903.2.12.1, 904.2.1, 904.11, 908.6, 909.1,

		909.10.2, 1014.5, 1016.4.1, 1203.1, 1203.2.1, 1203.4.2, 1203.4.2.1, 1203.5, 1209.3, 2304.5, 3004.3.1, 3410.6.7.1, 3410.6.8
IPC—03	International Plumbing Code ®	. . . . 101.4.4, 201.3, 415.7.4, 717.5, 903.3.5, 1206.3.3, 1503.4, 1807.4.3, 2901.1, 2902.1.1, 3305.1, 3401.3
SBCCI SSTD 10—99	Standard for Hurricane Resistant Residential Construction	. . . . . 1609.1.1, 2308.2.1
SBCCI SSTD 11—97	Test Standard for Determining Wind Resistance of Concrete or Clay Roof Tiles	. . . . . 1715.2.1, 1715.2.2
UBC Standard 18-2	Expansion Index Test	. . . . . 1802.3.2

(Amd) NFPA National Fire Protection  
Association  
1 Batterymarch Park  
P.O. Box 9101  
Quincy, MA 02269-  
9101

Standard reference number	Title	Referenced in code section number
11—02	Low Expansion Foam	. . . . . 904.7
11A—99	Medium- and High- Expansion Foam Systems	. . . . . 904.7
12—00	Carbon Dioxide Extinguishing Systems	. . . . . 904.8, 904.11
12A—04	Halon 1301 Fire Extinguishing Systems	. . . . . 904.9
13—02	Installation of Sprinkler Systems	. . . . 704.12, 707.2, 903.3.1.1, 903.3.2, 903.3.5.1.1, 904.11, 907.8, 1621.3.10.1, 3104.5, 3104.9
13D—02	Installation of Sprinkler Systems in One- and	. . . . . 903.1.2, 903.3.1.3, 903.3.5.1.1

	Two-Family Dwellings and Manufactured Homes	
13R—02	Installation of Sprinkler Systems in Residential Occupancies Up to and Including Four Stories in Height	. . . . . 903.1.2, 903.3.1.2, 903.3.5.1.1, 903.3.5.1.2, 903.4
14—03	Installation of Standpipe, Private Hydrants and Hose System	. . . . . 905.2, 905.3.4, 905.4.2, 905.8
16—03	Installation Foam-Water Sprinkler and Foam- Water Spray Systems	. . . . . 904.7, 904.11
17—02	Dry Chemical Extinguishing Systems	. . . . . 904.6, 904.11
17A—02	Wet Chemical Extinguishing Systems	. . . . . 904.5, 904.11
30—03	Flammable and Combustible Liquids Code	. . . . . 415.3
32—04	Drycleaning Plants	. . . . . 415.7.4
40—01	Storage and Handling of Cellulose Nitrate Motion Picture Film	. . . . . 409.1
61—02	Prevention of Fires and Dust Explosions in Agricultural and Food Product Facilities	. . . . . 415.7.1
72—02	National Fire Alarm Code	. . . . . 505.4, 901.6, 903.4.1, 904.3.5, 907.2, 907.2.1, 907.2.1.1, 907.2.10, 907.2.10.4, 907.2.11.2, 907.2.11.3, 907.2.12.2.3, 907.2.12.3, 907.4, 907.5, 907.9.2, 907.10, 907.14, 907.16, 907.17, 911.1, 3006.5
80—99	Fire Doors and Fire Windows	. . . . . 302.1.1.1, 715.3, 715.4.6.1, 715.4.4, 715.4.7.2, 715.5, 1008.1.3.3

Standard reference number	Title	Referenced in code section number
85—04	Boiler and Combustion System Hazards Code (Note: NFPA 8503 has been incorporated into NFPA 85)	415.7.1
99-02	Standard for Health Care Facilities	407.9, 407.10, 407.11, 420.2, 420.3
101—03	Life Safety Code	1024.6.2
110—02	Emergency and Standby Power Systems	2702.1
111—01	Stored Electrical Energy Emergency and Standby Power Systems	2702.1
120—04	Coal Preparation Plants	415.7.1
231C—98	See NFPA 13-2002	507.2
252—03	Standard Methods of Fire Tests of Door Assemblies	715.3.1, 715.3.2, 715.3.3, 715.3.4.1
253—00	Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source	406.6.4, 804.2, 804.3
257—00	Standard for Fire Test for Window and Glass Block Assemblies	715.3.3, 715.4, 715.4.1, 715.4.2
259—03	Test Method for Potential Heat of Building Materials	2603.4.1.10, 2603.5.3
265—02	Standard Method of Fire Tests for Evaluating Room Fire Growth Contribution of Textile Wall Coverings	803.6.1, 803.6.1.1, 803.6.1.2
268—01	Standard Test Method for Determining Ignitibility of Exterior Wall Assemblies Using a Radiant Heat Energy Source	1406.2.1, 1406.2.1.1, 1406.2.1.2, 2603.5.7

285—98	Standard Method of Test for the Evaluation of Flammability Characteristics of Exterior Non-load- bearing Wall Assemblies Containing Combustible Components	. . . . . .1407.10.4, 2603.5.5
286—00	Standard Method of Fire Test for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth	. . . . . 402.14.4, 803.2, 803.2.1, 803.5, 2603.4, 2603.8
409—04	Standard on Aircraft Hangers	. . . . . .412.2.6, 412.4.5
418—01	Standard for Heliports	. . . . . . . .412.5.6
651—98	Machining and Finishing of Aluminum and the Production and Handling of Aluminum Powders	. . . . . . . .415.7.1
654—00	Prevention of Fire & Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids	. . . . . . . .415.7.1
655—01	Prevention of Sulfur Fires and Explosions	. . . . . . . .415.7.1
664—02	Prevention of Fires Explosions in Wood Processing and Woodworking Facilities	. . . . . . . .415.7.1
701—04	Standard Methods of Fire Tests for Flame- Propagation of Textiles and Films	. . . . . 802.1, 805.1, 805.2, 3102.3.1, 3105.3
704—01	Standard System for the Identification of the Hazards of Materials for Emergency Response	. . . . . 414.7.2, 415.2
1124—06	Manufacture, Transportation, and Storage of Fireworks and Pyrotechnic Articles	. . . . . 307.5.2, 415.3.1
2001—04	Clean Agent Fire Extinguishing Systems	. . . . . . . . .904.10

(Amd) **SPRI**

Single-Ply Roofing  
 Institute  
 411 Waverly Oaks Road  
 Suite 331B  
 Waltham, MA 02452

Standard reference number	Title	Referenced in code section number
ES-1-03	Wind Design Standard for Edge Systems Used with Low Slope Roofing Systems	. . . . . .1504.5
RP – 4 – 02	Wind Design Guide for Ballasted Single-ply Roofing Systems	. . . . . . 1504.4

(Add) **APPENDIX K**

Municipality	Ground Snow Load, $P_g$ (psf)	Basic Wind Speed (3 sec. gust)	MCE Spectral Accelerations	
			$S_s$	$S_1$
Andover	30	100	0.234	0.063
Ansonia	30	105	0.255	0.063
Ashford	35	100	0.230	0.063
Avon	35	95	0.241	0.064
Barkhamsted	40	90	0.236	0.065
Beacon Falls	30	100	0.253	0.064
Berlin	30	100	0.242	0.063
Bethany	30	105	0.249	0.063
Bethel	30	95	0.283	0.066
Bethlehem	35	95	0.253	0.065
Bloomfield	35	95	0.239	0.064
Bolton	30	100	0.235	0.063
Bozrah	30	110	0.225	0.060
Branford	30	110	0.233	0.061
Bridgeport	30	110	0.270	0.064
Bridgewater	35	95	0.267	0.066
Bristol	35	95	0.245	0.064
Brookfield	35	95	0.275	0.066
Brooklyn	35	105	0.229	0.062
Burlington	35	95	0.243	0.064
Canaan	40	90	0.230	0.065
Canterbury	35	105	0.227	0.061
Canton	35	95	0.240	0.065
Chaplin	35	105	0.231	0.062
Cheshire	30	100	0.244	0.063
Chester	30	110	0.225	0.060
Clinton	30	115	0.219	0.059
Colchester	30	105	0.230	0.061
Colebrook	40	90	0.231	0.065
Columbia	30	105	0.232	0.062
Cornwall	40	90	0.242	0.065
Coventry	30	100	0.233	0.063
Cromwell	30	100	0.239	0.063
Danbury	30	95	0.286	0.066
Darien	30	105	0.313	0.067

Deep River	30	115	0.222	0.060
Derby	30	105	0.255	0.063
Durham	30	105	0.235	0.062
Eastford	40	100	0.229	0.063
East Granby	35	90	0.235	0.065
East Haddam	30	110	0.226	0.060
East Hampton	30	105	0.234	0.062
East Hartford	30	95	0.238	0.064
East Haven	30	110	0.238	0.061
East Lyme	30	115/120 <sup>2</sup>	0.215	0.058
Easton	30	105	0.280	0.065
East Windsor	35	95	0.235	0.064
Ellington	35	95	0.233	0.064
Enfield	35	95	0.233	0.065
Essex	30	115	0.219	0.059
Fairfield	30	105/110 <sup>3</sup>	0.279	0.064
Farmington	35	95	0.242	0.064
Franklin	30	105	0.228	0.061
Glastonbury	30	100	0.238	0.063
Goshen	40	90	0.242	0.065
Granby	35	90	0.234	0.065
Greenwich	30	100	0.336	0.069
Griswold	30	110	0.225	0.060
Groton	30	120	0.209	0.057
Guilford	30	110	0.229	0.060
Haddam	30	110	0.229	0.061
Hamden	30	105/110 <sup>3</sup>	0.243	0.062
Hampton	35	105	0.229	0.062
Hartford	30	95	0.239	0.064
Hartland	40	90	0.232	0.065
Harwinton	35	95	0.244	0.065
Hebron	30	105	0.234	0.062
Kent	40	90/swr <sup>1</sup>	0.252	0.066
Killingly	40	105	0.229	0.062
Killingworth	30	110	0.226	0.060
Lebanon	30	105	0.230	0.061
Ledyard	30	115	0.215	0.058
Lisbon	30	110	0.225	0.060
Litchfield	40	95	0.246	0.065
Lyme	30	115	0.214	0.058
Madison	30	110/115 <sup>6</sup>	0.224	0.060
Manchester	30	100	0.237	0.063

Mansfield	35	100	0.231	0.062
Marlborough	30	105	0.235	0.062
Meriden	30	100	0.241	0.063
Middlebury	35	95	0.254	0.064
Middlefield	30	105	0.238	0.062
Middletown	30	105	0.238	0.062
Milford	30	110	0.253	0.062
Monroe	30	100	0.268	0.065
Montville	30	115	0.218	0.059
Morris	35	95	0.249	0.065
Naugatuck	30	100	0.251	0.064
New Britain	30	95	0.242	0.064
New Canaan	30	100	0.311	0.067
New Fairfield	35	95	0.281	0.066
New Hartford	40	90	0.240	0.065
New Haven	30	110	0.243	0.062
Newington	30	100	0.240	0.064
New London	30	120	0.210	0.057
New Milford	35	95	0.265	0.066
Newtown	30	95	0.274	0.065
Norfolk	40	90	0.232	0.065
North Branford	30	110	0.233	0.061
North Canaan	40	90	0.230	0.065
North Haven	30	105/110 <sup>3</sup>	0.241	0.062
North Stonington	30	115	0.214	0.058
Norwalk	30	105/110 <sup>4</sup>	0.300	0.066
Norwich	30	110	0.222	0.060
Old Lyme	30	115/120 <sup>2</sup>	0.214	0.058
Old Saybrook	30	115	0.214	0.058
Orange	30	110	0.250	0.062
Oxford	30	100	0.258	0.064
Plainfield	35	105	0.226	0.061
Plainville	35	95	0.243	0.064
Plymouth	35	95	0.247	0.064
Pomfret	40	100	0.229	0.063
Portland	30	105	0.238	0.062
Preston	30	110/115 <sup>7</sup>	0.221	0.059
Prospect	30	100	0.248	0.063
Putnam	40	100	0.229	0.063
Redding	30	100	0.288	0.066
Ridgefield	30	95	0.301	0.067
Rocky Hill	30	100	0.239	0.063

Roxbury	35	95	0.262	0.065
Salem	30	110	0.224	0.060
Salisbury	40	90/swr <sup>1</sup>	0.231	0.065
Scotland	30	105	0.228	0.061
Seymour	30	105	0.255	0.064
Sharon	40	90/swr <sup>1</sup>	0.240	0.065
Shelton	30	105/110 <sup>5</sup>	0.260	0.064
Sherman	35	90	0.269	0.066
Simsbury	35	95	0.238	0.065
Somers	35	95	0.231	0.064
Southbury	35	95	0.262	0.065
Southington	30	100	0.245	0.064
South Windsor	30	95	0.237	0.064
Sprague	30	105	0.227	0.061
Stafford	35	95	0.230	0.064
Stamford	30	105	0.322	0.068
Sterling	35	105	0.227	0.061
Stonington	30	115/120 <sup>8</sup>	0.208	0.057
Stratford	30	110	0.262	0.063
Suffield	35	95	0.233	0.065
Thomaston	35	95	0.248	0.065
Thompson	40	100	0.229	0.063
Tolland	35	100	0.233	0.062
Torrington	40	90	0.243	0.065
Trumbull	30	105/110 <sup>3</sup>	0.270	0.064
Union	40	95	0.230	0.064
Vernon	30	100	0.235	0.064
Voluntown	30	110	0.223	0.059
Wallingford	30	105	0.240	0.062
Warren	40	90	0.249	0.065
Washington	35	95	0.256	0.065
Waterbury	35	95	0.250	0.064
Waterford	30	115/120 <sup>2</sup>	0.210	0.057
Watertown	35	95	0.252	0.065
Westbrook	30	115	0.216	0.058
West Hartford	30	95	0.240	0.064
West Haven	30	110	0.245	0.062
Weston	30	105	0.292	0.066
Westport	30	105/110 <sup>3</sup>	0.293	0.066
Wethersfield	30	100	0.239	0.063
Willington	35	100	0.231	0.063
Wilton	30	100	0.302	0.067

Winchester	40	90	0.236	0.065
Windham	30	105	0.229	0.062
Windsor	35	95	0.237	0.064
Windsor Locks	35	95	0.235	0.065
Wolcott	35	95	0.248	0.064
Woodbridge	30	105	0.250	0.063
Woodbury	35	95	0.257	0.065
Woodstock	40	100	0.228	0.063

Footnotes:

1. Western portions of these municipalities lie within the Special Wind Region.
2. Areas south of I-95 = 120 mph; areas north of I-95 = 115 mph
3. Areas south of Rt. 15 = 110 mph; areas north of Rt. 15 = 105 mph
4. Areas south of I-95 = 110 mph; areas north of I-95 = 105 mph
5. Areas east of Rt. 8 = 110 mph; areas west of Rt. 8 = 105 mph
6. Areas south of Rt. 80 = 115 mph; areas north of Rt. 80 = 110 mph
7. Areas south of Rt. 165 = 115 mph; areas north of Rt. 165 = 110 mph
8. Areas south of Rt. 184 = 120 mph; areas north of Rt. 184 = 115 mp

**AMENDMENTS TO THE ICC/ANSI A117.1-2003**

**Chapter 5. General Site and Building Elements**

(Del) **504 Stairways** Delete Section 504 in its entirety without substitution.

**Chapter 6. Plumbing Elements and Facilities**

(Amd) **604.5.3 Swing-up Grab Bars.** Where swing-up grab bars are installed in Type B dwelling units, a clearance of 18 inches minimum from the centerline of the water closet to any side wall or obstruction shall be provided. A swing-up grab bar shall be installed with the centerline of the grab bar 15 ¾ inches from the centerline of the water closet. Swing-up grab bars shall be 28 inches minimum in length, measured from the wall to the end of the horizontal portion of the grab bar.

**Chapter 10. Dwelling Units and Sleeping Units**

(Amd) **1004.3 Accessible Route.** Accessible routes within Type B dwelling units shall comply with Section 1004.3.

**Exception:** Exterior spaces less than 60 inches in depth.

(Add) **1004.3.3 Turning Space.** All rooms served by an accessible route shall provide a turning space complying with Section 304.

**Exception:** Toilet rooms and bathrooms not required to comply with Section 1004.11.3.1 or 1004.11.3.2.

(Del) **1004.13 Windows.** Delete section in its entirety without substitution.

## **AMENDMENTS TO THE 2003 INTERNATIONAL EXISTING BUILDING CODE**

### **CHAPTER 1 – ADMINISTRATION**

(Add) **101.13 Means of egress.** In addition to the requirements of this code, means of egress in existing buildings shall meet the requirements of the provisions of Part IV of the Connecticut State Fire Safety Code for the proposed occupancy.

### **CHAPTER 5 – ALTERATIONS-LEVEL 1**

(Add) **505.2 Minimum standards.** In addition to the requirements of this code, means of egress in existing buildings shall meet the requirements of the provisions of Part IV of the Connecticut State Fire Safety Code for the proposed occupancy.

### **CHAPTER 6 – ALTERATIONS – LEVEL 2**

(Amd) **605.2 General.** The means of egress shall comply with the requirements of this section.

**Exceptions:**

1. Where the work area and the means of egress serving it complies with Part IV of the 2005 Connecticut State Fire Safety Code.
2. For buildings constructed under a permit applied for on or after September 1, 1971, means of egress conforming to the requirements of the State Building Code under which the building was constructed shall be considered compliant means of egress providing that no unsafe conditions exist within the means of egress.

### **CHAPTER 8 – CHANGE OF OCCUPANCY**

(Amd) **804.1 General.** In addition to the fire protection requirements of Section 812, the following requirements shall apply where a building or portions thereof undergo a change of occupancy classification.

(Add) **804.1.1 Fire sprinkler system.** Where a change of occupancy classification occurs that requires an automatic fire sprinkler system to be provided based on the new occupancy in accordance with Chapter 9 of the 2003 International Building Code portion of the 2005 State Building Code, such system shall be provided throughout the building or portion thereof where the change of occupancy occurs.

(Add) **804.1.2 Fire alarm and detection system.** Where a change of occupancy classification occurs that requires a fire alarm and detection system to be provided based on the new occupancy in accordance with Chapter 9 of the 2003 International Building Code portion of the 2005 State Building Code, such system shall be provided throughout the building or portion thereof where the change of occupancy occurs. Existing alarm notification appliances shall be automatically activated throughout the building. Where the building is not equipped with an existing fire alarm system, alarm notification appliances shall be provided throughout the area where the change of occupancy occurs and shall be automatically activated.

(Amd) **812.5 Accessibility.** Existing buildings or portions thereof that undergo a change of group or occupancy shall have all of the following accessible features:

1. At least one accessible building entrance.
2. At least one accessible route from an accessible building entrance to primary function areas.
3. Signage complying with Section 1110 of the 2003 International Building Code.
4. Accessible parking, where parking is being provided.
5. At least one accessible passenger loading zone, when passenger loading zones are provided.
6. At least one accessible route connecting accessible parking and accessible passenger loading zones to an accessible entrance.
7. At least one accessible toilet room or toilet and bathing facility per gender complying with Section 1109.2 of the 2003 International Building Code.
8. At least one accessible means of egress complying with Section 1007 of the 2003 International Building Code.
9. Type A and Type B units as required by Section 1107 of the 2003 International Building Code.

Where it is technically infeasible as defined in Section 202.1 to comply with the new construction standards for any of these requirements for a change of group or occupancy, the above items shall conform to the requirements to the maximum extent technically feasible. Changes of group or occupancy that incorporate any alterations or additions shall comply with this section and Sections 506.1 and 905.1 as applicable.

**CHAPTER 14 – REFERENCED STANDARDS**

(Amd) ICC International Code  
 Council, Inc.  
 4051 West Flossmoor  
 Road  
 Country Club Hills, IL  
 60478

Standard reference number	Title	Referenced in code section number
IBC—03	International Building Code ®	101.2, 102.4.2, 106.1.1.1, 109.3.3, 109.3.8, 110.2, 202, 301.4, 401.4, 402.1, 403.2, 407.1.1.1, 407.1.1.3, Table 407.1.1.2, 407.1.2, 407.2, 407.3.1, 407.3.2.1.1, 407.3.5, 501.3, 502.1, 503.1, 503.2, 503.3, 506.1, 506.1.1, 506.1.7, 506.1.9, 507.2.1, 507.2.2, 601.3, 602.1, 603.2.1, 603.2.3, 603.3.2, 603.4, 603.5.2, 604.2, 604.2.2, 604.2.3, 604.2.4, 604.3, 605.2, 605.3.1, 605.4.3, 605.5, 605.6, 605.7.1, 605.8.1, 605.9.2, 605.10.2, 606.2, 606.3, 607.1, 607.2, 607.3, 607.4, 607.4.1, 607.4.3, 704.1.2, 704.2, 704.2.1, 705.2, 705.3, 707.2, 707.3, 707.5.1, 707.6, 707.7, 801.1, 801.3, 802.1, 802.2, 807.1, 807.2, 807.3.1, 811.1.1.1, 812.1.1, 812.1.2, 812.3.1, 812.4.1.1, 812.4.1.2, 812.4.1.3, 812.4.2.1, 812.4.2.3, 812.4.3.1, 812.4.3.3, 812.4.4.1, 812.4.4.3, 812.5, 902.1, 902.2, 903.1, 903.2, 903.3, 903.3.1, 903.3.2, 903.4, 903.5, 904.1, 904.2, 1001.4, 1002.3, 1002.5, 1005.2, 1005.9, 1101.2, 1102.1, 1102.2, 1102.2.1, 1102.3, 1102.4, 1102.5, 1102.6, 1201.2.2, 1201.2.3, 1201.2.4, 1201.2.5, 1201.3.3, 1201.4.1, 1201.6.1, 1201.6.1.1, 1201.6.2, 1201.6.2.1, 1201.6.3.1, 1201.6.3.2, 1201.6.13, 1201.6.4.1, 1201.6.5, 1201.6.5.1, 1201.6.6, 1201.6.7.1, 1201.6.8, 1201.6.9.1, 1201.6.10.1, 1201.6.11, 1201.6.11.1, 1201.6.12.1, 1201.6.15.1, Table 1201.6.15, 1201.6.16.1, 1201.6.17, 1201.6.17.1, 1201.6.18, 1201.6.18.1, 1201.6.19, 1301.6.1, 1301.6.4.1, 1301.6.7, 1306.3
ICC/ANSI A117.1—03	Guidelines for Accessible and Usable Buildings and Facilities	... Table 407.1.1.2, 506.1.2, 506.1.3
IECC—06	International Energy Conservation Code ®	503.3, 906.1
IMC—03	International Mechanical	101.2, 503.3,

	Code ®	609.1, 702.1.1, 702.2.1, 809.1, 1201.6.7.1, 1201.6.8, 1201.6.8.1
IPC—03	International Plumbing Code ®	...101.2, 410.2, 503.3, 610.1, 810.1, 810.2, 810.3, 810.5, 1301.5
IRC—03	International Residential Code ®	.... 101.2, 403.2, 407.1.2, 507.2.1, 607.4.1, 607.4.3, 608.3, 703.2.1, 707.5.1, 707.6, 903.2, 903.3, 903.4, 904.1, 904.2, 1102.1, 1201.2.2, 1201.2.3
NBC—96	BOCA National Building Code ®	..... .. 102.4.2

**AMENDMENTS TO THE 2003 INTERNATIONAL PLUMBING CODE**

**CHAPTER 10 – TRAPS, INTERCEPTORS AND SEPARATORS**

(Amd) **1003.3 Grease traps and grease interceptors.** Grease traps and grease interceptors that serve plumbing systems connected to private, on-site septic systems shall comply with the requirements of Sections 1003.3.1 to 1003.3.4.2, inclusive. Grease traps and grease interceptors that serve plumbing systems connected via a sanitary sewer to a publicly owned treatment works shall comply with the Department of Environmental Protection’s General Permit for the Discharge of Wastewater Associated with Food Preparation Establishments.

**CHAPTER 13 – REFERENCED STANDARDS**

(Amd) **ICC** International  
Code Council, Inc.  
4051 West Flossmoor  
Road Country Club Hills,  
IL 60478

Standard reference number	Title	Referenced in code section number
IBC—03	International Building Code	..... 201.3, 305.4, 307.1, 307.2, 307.3, 308.2, 309.1, 310.1, 310.3, 403.1, Table 403.1, 404.1, 407.3, 417.6, 502.6, 606.5.2, 1106.5
ICC EC—03	ICC Electrical Code	..... 201.3, 502.1, 504.3, 1113.1.3
IEBC—03	International Existing Building Code	..... .....101.2
IECC—06	International Energy	..... 313.1,

	Conservation Code	607.2, 607.2.1
IFC—03	International Fire Code	..... 201.3, 1201.1
IFGC—03	International Fuel Gas Code	..... 101.2, 201.3, 502.1
IMC—03	International Mechanical Code	..... 201.3, 307.6, 310.1, 422.9, 502.1, 612.1, 1202.1
IPSDC—03	International Private Sewage Disposal Code	..... 701.2
IRC—03	International Residential Code	..... 101.2

**AMENDMENTS TO THE 2003 INTERNATIONAL MECHANICAL CODE**

**CHAPTER 5 – EXHAUST SYSTEMS**

(Add) **510.1.1 Laboratories.** For the purposes of the provisions of Section 510, a laboratory shall be defined as a facility where the use of chemicals is related to testing, analysis, teaching, research or developmental activities where chemicals are used or synthesized on a non-production basis, rather than in a manufacturing process.

(Amd) **510.7 Suppression required.** Ducts shall be protected with an approved automatic fire suppression system installed in accordance with the 2003 International Building Code portion of the 2005 State Building Code as amended.

**Exceptions:**

1. An approved automatic fire suppression system shall not be required in ducts conveying materials, fumes, mists and vapors that are nonflammable and noncombustible under all conditions and at any concentrations.
2. An approved automatic fire suppression system shall not be required in ducts where the largest cross-sectional diameter of the duct is less than 10 inches.
3. For laboratories, as defined in Section 510.1.1, automatic fire protection systems shall not be required in laboratory hoods or exhaust systems.

**CHAPTER 15 – REFERENCED STANDARDS**

(Amd) ICC International Code Council,  
 Inc.  
 4051 West Flossmoor  
 Road  
 Country Club Hills, IL  
 60478

Standard reference number	Title	Referenced in code section number
IBC—03	International Building Code	. . .201.3, 202, 301.12, 301.14, 301.15, 302.1, 302.2, 304.7, 304.10, 308.8, 308.10, 401.4, 401.6, 406.1, 502.10, 502.10.1, 504.2, 506.3.3, 506.3.10, 506.3.12.2, 506.4.1, 509.1, 510.6, 510.6.1, 510.6.2, 510.7, 511.1.5, 513.1, 513.2, 513.3, 513.4.3, 513.5, 513.5.2, 513.5.2.1, 513.6.2, 513.10.5, 513.12, 513.12.2, 513.20, 602.2.1.5.1, 602.2.1.5.2, 602.3, 603.1, 603.10, 604.5.4, 607.1.1, 607.3.2.1, 607.5.1, 607.5.2, 607.5.3, 607.5.4, 607.5.4.1, 607.5.5, 607.5.5.1, 607.6, 701.4.1, 701.4.2, 801.3, 801.16.1, 801.18.4, 902.1, 908.3, 908.4, 910.3, 925.1, 1004.6, 1105.1, 1206.4, 1402.4, 1402.4.1
ICC EC—03	ICC Electrical Code	. . . . . 201.3, 301.7, 306.3.1, 306.4.1, 513.11, 513.12.1, 602.2.1.1
IEBC—03	International Existing Building Code	. . . . . 101.2
IECC—06	International Energy Conservation Code	. . . . . 202, 301.2, 303.3, 312.1, 603.9, 604.1, 1204.1, 1204.2
IFC—03	International Fire Code	. . . . . 201.3, 310.1, 311.1, 502.5, 502.7.2, 502.8.1, 502.9.5, 502.9.5.2, 502.9.5.3, 502.9.8.2, 502.9.8.3, 502.9.8.5, 502.9.8.6, 502.10, 502.10.3, 502.16.2, 509.1, 510.2.1, 510.2.2, 510.4, 513.12.3,

		513.15, 513.16, 513.17, 513.18, 513.19, 513.20.2, 513.20.3, 606.2.1, 908.7, 1101.9, 1105.3, 1106.5, 1106.6, 1301.1, 1301.2
IFGC—03	International Fuel Gas Code	..... 101.2, 201.3, 301.3, 701.1, 801.1, 901.1, 906.1, 1101.5
IPC—03	International Plumbing Code	..... 201.3, 301.8, 512.2, 908.5, 1002.1, 1002.2, 1002.3, 1005.2, 1006.6, 1008.2, 1009.3, 1101.4, 1201.1, 1206.2, 1206.3, 1401.2
IRC—03	International Residential Code	..... 101.2

(Del) **2006 INTERNATIONAL ENERGY CONSERVATION CODE:**  
Delete document in its entirety and substitute with the 2009 International Energy Conservation Code as amended herein:

**AMENDMENTS TO THE 2009 INTERNATIONAL ENERGY CONSERVATION CODE**

**CHAPTER 1 – ADMINISTRATION**

(Amd) **101.1 Title.** These regulations shall be known as the 2009 International Energy Conservation Code portion of the 2005 State Building Code, hereinafter referred to as “the code” or “this code”.

(Amd) **101.5.2 Low energy buildings.** The following buildings, or portions thereof, separated from the remainder of the building by building thermal envelope assemblies complying with this code, shall be exempt from the building thermal envelope provisions of this code:

1. Those with a peak design rate of energy usage less than 3.4 British thermal units per hour per square foot (Btu/h ft<sup>2</sup>) or 1.0 watts per square foot (watt/ft<sup>2</sup>) of floor area for space conditioning purposes;
2. Those that do not contain conditioned space; or
3. Buildings and structures for which heating and cooling is supplied solely by utilization of non-purchased renewable energy sources including, but not limited to, on-site wind, on-site water or on-site solar power, or wood-burning heating appliances that do not rely on backup heat from other purchased, non-renewable sources.

(Add) **101.5.3 Energy efficiency standards for products.** In addition to the requirements of this code, the testing, certification and enforcement of efficiency standards for new products sold, offered for

sale or installed in the State of Connecticut shall be in compliance with section 16a-48 of the Connecticut General Statutes and regulations adopted under authority of said statute.

(Add) **101.6 Administrative matters not provided for.** Administrative matters not covered by this code shall be in accordance with the provisions of Chapter 1 of the 2003 International Building Code portion of the 2005 State Building Code.

(Amd) **102.1.1 Above code programs.** The State Building Inspector and the Codes and Standards Committee shall be permitted to deem a national, state or local energy efficiency program to exceed the energy efficiency required by this code. Such energy efficiency program may include, but not be limited to, the Leadership in Energy and Environmental Design Rating system, the Green Globes USA design program, as established by the Green Building Initiative, the National Green Building Standard, as established by the National Association of Home Builders, or an equivalent rating system approved in accordance with section 29-256a of the Connecticut General Statutes.

Buildings approved in writing by such an energy efficiency program shall be considered in compliance with this code. The requirements identified as "mandatory" in Chapters 4 or 5 of this code, as applicable, shall be met.

(Amd) **103.1 General.** Two sets of construction documents and other supporting data shall be submitted to the building official at the time of application for the building permit. The construction documents and designs submitted shall be prepared by a registered design professional when required by the provisions of chapters 390 or 391 of the Connecticut General Statutes.

**Exception:** The building official may waive the submission of construction documents and other supporting data not required to be prepared by a registered design professional if the work proposed is not required by the provisions of this code, or the building official determines that the nature of the work applied for is such that review of the construction documents is not necessary to obtain compliance with this code.

(Amd) **103.5 Retention of construction documents.** One set of approved construction documents shall be retained by the building official for a period as set forth in the records or disposition schedule adopted pursuant to chapter 188 of the Connecticut General Statutes.

(Amd) **106.1 General.** The codes and standards referenced in this code shall be those listed in Chapter 6, and such codes and standards shall be considered as part of the requirements of this code to the prescribed extent of each such reference. Any reference to the ICC codes shall

mean the Regulations of Connecticut State Agencies known as the State Building Code adopted pursuant to section 29-252 of the Connecticut General Statutes.

(Amd) **107.2 Schedule of permit fees.** As prescribed by law, each municipality shall establish a schedule of fees for each construction document review, building permit, certificate of approval and certificate of occupancy. A schedule of adopted fees shall be posted for public view.

(Del) **108.4 Failure to comply.** Delete in its entirety and replace with the following:

(Amd) **108.4 Unlawful continuance.** Any person who continues any work in or about the structure after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable for penalties in accordance with section 29-254a of the Connecticut General Statutes.

(Del) **SECTION 109 BOARD OF APPEALS.** Delete this section in its entirety and replace with the following:

(Add) **109.1 Means of appeal.** Means of appeal shall be in accordance with Section 112 of the 2003 International Building Code portion of the 2005 State Building Code.

## **CHAPTER 2 – DEFINITIONS**

(Amd) **201.3 Terms defined in other codes.** Where terms are not defined in this code and are defined in other codes adopted as portions of the 2005 State Building Code, such terms shall have the meanings ascribed to them as in those codes.

(Add) **SECTION 202.1 DEFINITIONS.** Add the following definitions:

(Add) **BUILDING OFFICIAL.** The officer or other designated authority charged with the administration and enforcement of this code, or a duly authorized representative. The building official may also be known as the local building official or code official.

(Amd) **CODE OFFICIAL.** See building official.

(Add) **FULL CUTOFF LUMINAIRE.** A luminaire that allows no direct light emissions above a horizontal plane through the luminaire's lowest light-emitting part.

(Add) **GREENHOUSE.** A one-story structure, enclosing a nonhabitable space, with glazing in excess of 50 per cent of the gross area of the exterior walls and roof.

(Amd) **RESIDENTIAL BUILDING.** For this code, includes detached one and two-family dwellings and townhouses, as well as Group R-2, R-3 and R-4 buildings three stories or less in height.

(Amd) **SUNROOM.** A one-story structure, enclosing a habitable space, with glazing in excess of 40 per cent of the gross area of the exterior walls and roof, and with the area of windows and doors operable to the exterior equal to a minimum of 20 per cent of the area of the sunroom floor.

## CHAPTER 4 – RESIDENTIAL ENERGY EFFICIENCY

(Del) **402.2.11 Thermally isolated sunroom insulation.** Delete in its entirety and replace with the following:

(Amd) **402.2.11 Prescriptive requirements for residential greenhouses and sunrooms.** Unconditioned greenhouses and sunrooms that are freestanding or thermally isolated from the conditioned space are exempt from the requirements of this code. As an alternative to demonstrating compliance with other requirements of this code, conditioned greenhouses and sunrooms shall meet the prescriptive envelope criteria in Table 402.2.11. R-values refer to installed insulation only, not to assembly values. For installed components with different R- or U- values, area-weighted averages shall be used to determine compliance with Table 402.2.11.

Greenhouses that are freestanding or that are attached to the outside of the building envelope capable of being closed off from the dwelling through the use of opaque walls and fixed or operable doors and windows shall be 400 square feet or less in area and shall have a maximum area-weighted fenestration U-value of 0.60.

Sunrooms that are freestanding or that are attached to the outside of the building envelope capable of being closed off from the dwelling through the use of opaque walls and fixed or operable doors and windows shall be 500 square feet or less in area and shall have a maximum area-weighted fenestration U-value of 0.50. Sunrooms that are connected with a conditioned space via a permanent opening shall be 350 square feet or less in area and shall have a maximum area-weighted fenestration U-value of 0.45.

(Add) **Table 402.2.11 Prescriptive envelope component criteria for residential greenhouses and sunrooms.**

BUILDING COMPONENT	MINIMUM R-VALUE
Opaque ceiling	R-19
Floor over unheated space	R-19
Opaque wall	R-11
Slab-on-grade perimeter insulation	R-5 <sup>a</sup>

a. Two feet minimum depth slab-on-grade perimeter insulation.

(Add) **402.2.12 Urea-formaldehyde insulation.** Pursuant to section 29-277 of the Connecticut General Statutes, urea-formaldehyde foamed-in-place insulation shall not be installed in any building or structure on or after June 1, 1981.

(Del) **402.3.5 Thermally isolated sunroom U-factor.** Delete without substitution.

(Add) **402.6 Moisture control.** Class I or II vapor retarders shall be provided on the interior side of the frame walls in Zone 5A.

**Exceptions:**

1. Basement walls;
2. Below-grade portions of any wall; or
3. Construction where moisture or its freezing will not damage the materials.

(Add) **402.6.1 Class III vapor retarders.** Class III vapor retarders shall be permitted where any one of the conditions in Table 402.6.1 is met.

(Add)

**TABLE 402.6.1  
CLASS III VAPOR RETARDERS**

ZONE	CLASS III VAPOR RETARDERS PERMITTED FOR: <sup>a</sup>
5A	Vented cladding over OSB Vented cladding over plywood Vented cladding over fiberboard Vented cladding over gypsum Insulated sheathing with R-value $\geq$ R5 over 2x4 wall Insulated sheathing with R-value $\geq$ R7.5 over 2x6 wall

For SI: 1 pound per cubic foot = 16 kg/m<sup>3</sup>.

a. Spray foam with a minimum density of 2 lbs/ft<sup>3</sup> applied to the interior cavity side of OSB, plywood, fiberboard, insulating sheathing or gypsum is deemed to meet the insulating sheathing requirement where the spray foam R-value meets or exceeds the specified insulating sheathing R-value.

(Add) **402.6.2 Material vapor retarder class.** The vapor retarder class shall be based on the manufacturer's certified testing or a tested assembly. The following shall be deemed to meet the class specified:

- Class I: Sheet polyethylene, non-perforated aluminum foil;
- Class II: Kraft-faced fiberglass or batts or paint with a perm rating greater than 0.1 and less than or equal to 1.0; or
- Class III: Latex or enamel paint.

(Add) **403.2.1.1 Duct insulation values.** Minimum duct insulation values stated in Section 403.2.1 shall be installed R-values.

(Amd) **403.2.3 Building cavities (Mandatory).** Building framing cavities shall not be used as supply or return ducts.

(Add) **403.4.1 Pipe insulation.** All service hot water piping within 10 feet of service water heating equipment shall be insulated to at least R-2. Systems with distribution manifolds shall be insulated between service water heating equipment and the distribution manifold or 10 feet, whichever is less. In addition, the first 5 feet of cold water pipes from the water heating tanks shall be insulated to at least R-2.

(Amd) **403.6 Equipment sizing (Mandatory).** Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on building loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies.

(Amd) **403.9.1 Pool heaters.** All pool heaters shall be equipped with a readily accessible on-off switch to allow shutting off the heater without adjusting the thermostat setting. Pool heaters fired by natural gas or liquefied petroleum gas (propane) shall not have continuously burning pilot lights.

**CHAPTER 5 – COMMERCIAL ENERGY EFFICIENCY**

(Del) **502.4.4 Hot gas bypass limitation.** Delete in its entirety.

(Del) **TABLE 502.4.4 MAXIMUM HOT GAS BYPASS CAPACITY.** Delete Table in its entirety.

(Add) **503.2.7.2 Duct insulation values.** Minimum duct insulation values stated in Section 503.2.7 shall be installed R-values.

(Add) **503.4.7 Hot gas bypass limitation.** Cooling systems shall not use hot gas bypass or other evaporator pressure control systems unless the system is designed with multiple steps of unloading or continuous capacity modulation. The capacity of the hot gas bypass shall be limited as indicated in Table 503.4.7.

**Exception:** Unitary packaged systems with cooling capacities not greater than 90,000 Btu/h (26 379 W).

(Add) **TABLE 503.4.7  
MAXIMUM HOT GAS BYPASS CAPACITY**

<b>RATED CAPACITY</b>	<b>MAXIMUM HOT GAS BYPASS CAPACITY (% of total capacity)</b>
≤240,000 Btu/h	50%
>240,000 Btu/h	25%

For SI: 1Btu/h = 0.29 watts

(Add) **505.6.3 Light pollution controls.** When the power for exterior lighting is supplied through the energy service to the building, luminaires used for exterior lighting shall be full cutoff luminaires.

**Exceptions:**

1. Luminaires with an output of 150 watts incandescent or less, or the equivalent light output;
2. Luminaires intended to illuminate the façade of buildings or to illuminate other objects including, but not limited to, flagpoles, landscape and water features, statuary and works of art;
3. Luminaires for historic lighting on the premises of an historic building as defined in the 2003 International Existing Building Code or within a designated historic district;
4. Outdoor sports facility lighting of the participant sport area;
5. Emergency exit discharge lighting;
6. Low voltage landscape lighting;
7. Sign illumination;
8. Festoon lighting as defined in the 2005 NFPA 70 National Electrical Code; or
9. Temporary lighting for emergency, repair, construction, special events or similar activities.

**CHAPTER 6 – REFERENCED STANDARDS**

Add the following standard:

(Add) **ACCA** Air Conditioning Contractors of America  
 2800 Shirlington Road, Suite 300  
 Arlington, VA 22206

Standard reference number	Title	Referenced in code section number
Manual J—02	Residential Load Calculation-Eighth Edition	.....403.6
Manual S—04	Residential Equipment Selection	.....403.6

(Amd) **ICC** International Code Council, Inc.  
 500 New Jersey Avenue, NW  
 6<sup>th</sup> Floor  
 Washington, DC 20001

Standard reference number	Title	Referenced in code section number

IBC—03	International Building Code®	.....303.2, 201.3
IFC—09	International Fire Code®	.....201.3
IFGC—09	International Fuel Gas Code®	.....201.3
IMC—03	International Mechanical Code®	.....503.2.5, 503.2.6, 503.2.7.1, 503.2.7.1.1, 503.2.7.1.2, 503.2.9.1, 503.4.5
IPC—03	International Plumbing Code®	.....201.3
IRC—09	International Residential Code®	201.3, 403.2.2, 403.6, 405.6.1, Table 405.5.2 (1)

(Amd) ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.  
 1791 Tullie Circle, NE  
 Atlanta, GA 30329-2305

Standard reference number	Title	Referenced in code section number
119-88 (RA 2004)	Air Leakage Performance for Detached Single-family Residential Buildings	.....Table 405.5.2(1)
140-2007	Standard Method of Test for the Evaluation of Building Energy Analysis Computer Programs	.....506.6.1
146-1998	Testing and Rating Pool Heaters	.....Table 504.2
ANSI/ASHRAE/ACCA Standard 183-2007	Peak Cooling and Heating Load Calculations in Buildings Except Low-rise Residential Buildings	.....503.2.1
13256-1(2005)	Water-source Heat Pumps-Testing and Rating for	.....Table 503.2.3(2)

	Performance-Part 1:Water-to-air and Brine-to-air Heat Pumps (ANSI/ASHRAE/IESNA 90.1-2004)	
90.1-2007	Energy Standard for Buildings Except for Low-rise Residential Buildings (ANSI/ASHRAE/IESNA 90.1-2007 with ASHRAE Addenda 2008 Supplement	501.1, 501.2, 502.1.1, Table 502.2(2)
ASHRAE-2001, 2005	ASHRAE Handbook of Fundamentals	....402.1.4, Table 405.5.2(1)
ASHRAE-2004	ASHRAE HVAC Systems and Equipment Handbook - 2004	.....503.2.1

**AMENDMENTS TO THE 2003 INTERNATIONAL RESIDENTIAL CODE****CHAPTER 1 - ADMINISTRATION**

(Amd) **R101.2 Scope.** The provisions of the 2003 International Residential Code for One- and Two-Family Dwellings shall apply to the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, removal and demolition of detached one- and two-family dwellings and multiple single-family dwellings (townhouses) not more than three stories in height with a separate means of egress and their accessory structures.

**Exception:** Existing buildings undergoing repair, movement, alteration or additions and change of occupancy shall be permitted to comply with the 2003 International Existing Building Code. The choice to comply with this code or the 2003 International Existing Building Code shall be made by the permit applicant at the time of application for the building permit.

(Add) **R101.4.7 Demolition of structures.** The demolition of structures shall be conducted in accordance with the State Demolition Code as found in Chapter 541 of the Connecticut General Statutes.

(Amd) **R105.1 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 move a lot line that will affect any existing 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.

(Add) **R109.1.5.2 Additional electrical inspections.** Required electrical inspections in addition to those required by Sections R109.1.2 and R 109.1.6 shall include installations of temporary services prior to activation and installation of underground piping and conductors after trenches are excavated and bedded and before backfill is put in place.

**(Add) SECTION R117 – VACANT BUILDINGS**

(Add) **R117.1 General.** Temporarily unoccupied buildings, structures, premises or portions thereof, including tenant spaces, shall be safeguarded and maintained in accordance with Section 117 of the 2003 International Building Code portion of the 2005 State Building Code.

## CHAPTER 2 - DEFINITIONS

(Add) **R202.1 Definitions.** Add or amend the following definitions:

(Amd) **BUILDING, EXISTING.** An existing building is a building or structure, or portion thereof, erected in whole or in part, for which a legal building permit and a certificate of occupancy has been issued. Buildings or structures or portions thereof erected prior to October 1, 1970 shall be deemed existing buildings regardless of the existence of a legal permit or a certificate of occupancy.

(Add) **COMPLEX.** For application of accessibility requirements, this term means any group of buildings located on a single parcel of land or on contiguous parcels of land or any building or group of buildings that are subdivided into separate occupancies and planned, financed, constructed or promoted by common management for the purpose of sale or lease of the entire complex or any subdivision thereof, excluding any single-family detached dwelling.

(Add) **ONE-FAMILY DWELLING.** A building containing one dwelling unit with not more than six lodgers or boarders where personal care services are not provided. Also known as a single-family dwelling.

(Add) **TWO-FAMILY DWELLING.** A building containing two dwelling units with not more than six lodgers or boarders per dwelling unit where personal care services are not provided.

(Amd) **WIND BORNE DEBRIS REGION.** Areas where the basic wind speed in accordance with Appendix M is equal to or greater than 120 miles per hour.

## CHAPTER 3 – BUILDING PLANNING

(Amd) **R301.2.1.2 Internal pressure.** Windows in buildings located in windborne debris regions shall have glazed openings protected from windborne debris or the building shall be designed as a partially enclosed building in accordance with the 2003 International Building Code portion of the 2005 State Building Code. Glazed opening protection for windborne debris shall meet the requirements of the Large Missile Test of ASTM E1996 and of ASTM E 1886 referenced herein.

**Exception:** Wood structural panels with a minimum thickness of 7/16 inch and a maximum span of 8 feet shall be permitted for opening protection in one- and two-story buildings and for the first and second story of three-story buildings. Panels shall be precut and marked for location to cover the glazed openings with attachment hardware provided. Attachments shall be provided in accordance with Table R301.2.1.2 or shall be designed to resist

the components and cladding loads determined in accordance with the provisions of the 2003 International Building Code portion of the 2005 State Building Code.

(Amd) **R305.1 Minimum height.** Habitable rooms, hallways, corridors, bathrooms, toilet rooms, laundry rooms and basements shall have a ceiling height of not less than 7 feet. The required height shall be measured from the finished floor to the lowest projection from the ceiling.

**Exceptions:**

1. Beams, girders, pipes, ducts or other obstructions spaced not less than 4 feet on center shall be permitted to project not more than 6 inches below the required ceiling height.
2. Basements without habitable spaces shall have a ceiling height of not less than 6 feet, 8 inches. Beams, girders, pipes, ducts or other obstructions shall be permitted to project not more than 4 inches below the required ceiling height.
3. Not more than 50 per cent of the required area of a habitable room or space is permitted to have a sloped or furred ceiling less than 7 feet in height. No portion of the required floor area shall be less than 5 feet in height.
4. Bathrooms are permitted to have sloped or furred ceilings, but shall have a minimum ceiling height of 6 feet, 8 inches over the fixtures and at the front clearance area for the fixtures as shown in Figure R307.2. A shower or tub equipped with a showerhead shall have a minimum ceiling height of 6 feet, 8 inches above a minimum area 30 inches by 30 inches at the showerhead.
5. Ceiling height in existing basements being converted to habitable space shall be not less than 6 feet, 10 inches clear except under beams, girders, pipes, ducts or other obstructions where the clear height shall be a minimum of 6 feet, 4 inches.

(Add) **R309.2.1 Detached garages.** Detached garages shall be separated from dwellings on the same lot as required by Section R309.2 with opening protection as required by Section 309.1. This provision shall not apply to garage walls that are perpendicular to the adjacent dwelling unit wall.

**Exception:** Detached garages that are separated from the dwelling by a minimum distance of 10 feet.

(Amd) **R310.1 Emergency escape and rescue openings required.** Habitable spaces located within basements and every sleeping room within the dwelling shall have at least one operable emergency escape and rescue opening. 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 habitable areas of the basement. Where emergency escape and rescue openings are provided, they shall have a sill height of not more than 44 inches above the floor. Where a door opening having a threshold below the

adjacent ground elevation serves as an emergency escape and rescue opening and is provided with a bulkhead enclosure, the bulkhead enclosure shall comply with Section R310.3. Emergency escape and rescue openings with a finished sill height below the adjacent ground elevation shall be provided with a window well in accordance with Section R310.2.

**Exceptions:**

1. Habitable basements without sleeping rooms are not required to have emergency escape and rescue openings when they are provided with two remote, code-compliant stairways.
2. In existing buildings, basements being converted to habitable space without sleeping rooms are not required to have emergency escape and rescue openings.
3. The 44-inch maximum sill height shall be permitted to be measured vertically above a fixed, permanent platform, step or steps whose minimum width shall equal or exceed the operable width of the opening and shall be centered on such opening and which shall comply with Sections R311.5.3.1 and R311.5.3.2. Glazing in windows complying with this exception shall not be subject to the provisions of Section R308.4, item 10.

(Add) **R312.1 Retaining wall guards.** Retaining walls with a difference in finished grade from the top of the wall to the bottom of the wall that is greater than 4 feet shall be provided with guards complying with Section R312 when there is a walking surface, parking lot or driveway on the high side located closer than 2 feet to the retaining wall. For the purposes of this section, grass, planting beds or landscaped areas shall not be considered a walking surface.

(Amd) **R314.2.3 Attics and crawlspaces.** Within attics and crawlspaces where entry is made only for service of utilities, foam plastics shall be protected against ignition by 1 ½-inch-thick mineral fiber insulation, ¼-inch-thick wood structural panels, 3/8-inch particleboard, ¼-inch hardboard, 3/8-inch gypsum board or corrosion-resistant steel having a base metal thickness of 0.016 inch. The ignition barrier is not required where the foam plastic insulation has been tested in accordance with Section R314.3.

(Amd) **R314.3 Specific approval.** Foam plastic not meeting the requirements of Sections R314.1 and R314.2 may be specifically approved on the basis of one of the following approved tests: FM 4880, UL 1040, NFPA 286 with the acceptance criteria of Section R315.4, or UL 1715, or fire tests related to actual end-use configurations. The specific approval shall be based on the actual end-use configuration and shall be performed on the finished foam plastic assembly in the maximum thickness intended for use. Assemblies tested shall include seams, joints and other typical details used in the installation of the assembly and shall be tested in the manner intended for use.

(Amd) **R317.1 Two-family dwellings.** Dwelling units in two-family dwellings shall be separated from each other and from common spaces serving both dwelling units by wall or floor-ceiling assemblies having not less than a 1-hour fire-resistance rating when tested in accordance with ASTM E 119. Fire-resistance-rated floor-ceiling and wall assemblies shall extend to and be tight against the exterior wall and wall assemblies shall extend to the underside of the roof sheathing. Fire-resistance-rated assemblies shall be supported to the foundation by construction with the same fire-resistance rating as the assembly supported.

**Exception:** A fire-resistance rating of ½ hour shall be permitted in buildings equipped throughout with an automatic sprinkler system installed in accordance with NFPA 13.

**SECTION R322 – ACCESSIBILITY.** Delete section in its entirety and replace with:

(Add) **R322 – ACCESSIBILITY**

(Add) **R322.1 Scope.** Detached one- and two-family dwellings shall be exempt from accessibility requirements. Attached multiple single-family dwellings (townhouses) shall comply with Section R322.2 for single-story townhouses and with Section R322.3 for multi-story townhouses. For the purposes of this section, a one-story above-grade dwelling with a finished basement shall be considered a multi-story townhouse. Required Type B units shall comply with ICC/ANSI A117.1-2003, as amended.

(Add) **R322.2 Single-story townhouses.** Where there are four or more townhouses in a single structure, each single-story townhouse shall be a Type B unit.

**Exception:** The number of Type B units shall be permitted to be reduced in accordance with Section R322.4.

(Add) **R322.3 Multi-story townhouses.** Buildings or complexes that contain 10 or more multi-story townhouses shall have at least 10 per cent Type B units. This requirement shall be met by providing a sufficient number of single-story Type B units or by providing a sufficient number of multi-story townhouses that incorporate a Type B unit on the street floor or by a combination of the two. Multi-story townhouses that incorporate a Type B unit on the street floor shall not be required to provide accessibility to floors above or below the street floor. The Type B unit on the street floor shall include provisions for living, sleeping, eating, cooking and a complete toilet and bathing facility on that floor.

**Exceptions:**

1. Structures with fewer than four dwelling units.
2. The number of Type B units shall be permitted to be reduced in accordance with Section R322.4.

(Add) **R322.4 General exceptions.** Where permitted by Sections R322.2 and R322.3, the required number of Type B units shall be permitted to be reduced in accordance with Sections R322.4.1 and R322.4.2.

(Add) **R322.4.1 Site impracticality.** On a site with multiple buildings, the number of units required by Sections R322.2 and R322.3 to be Type B units shall be permitted to be reduced to a percentage which is equal to the percentage of the entire site having grades, prior to development, which are less than 10 per cent, provided that not less than 20 per cent of the Type B units required by Sections R322.2 and R322.3 on the site are provided.

(Add) **R322.4.2 Design flood elevation.** The required number of Type B units shall not apply to a site where the lowest floor is required to be at or above the design flood elevation resulting in:

1. A difference in elevation between the minimum required floor elevation at the primary entrance and the closest vehicular and pedestrian arrival points, and
2. A slope exceeding 10 per cent between the minimum required floor elevation at the primary entrance and the closest vehicular and pedestrian arrival points.

(Add) **R322.5 Accessible route.** At least one accessible route shall connect accessible building or facility entrances with the primary entrance of each Type B unit within the building or complex and with those exterior and interior facilities that serve the units.

**Exception:** If the slope of the finished ground level between accessible facilities and buildings exceeds one unit vertical in 12 units horizontal (1:12), or where physical barriers prevent the installation of an accessible route, a vehicular route with parking that complies with Section 1106 of the 2003 International Building Code portion of the 2005 State Building Code at each public or common use facility or building is permitted in place of the accessible route.

(Add) **R322.6 Parking.** Two per cent, but not less than one, of each type of parking space provided in occupancies which are required to have Type B dwelling units shall be accessible. For each six or fraction of six accessible parking spaces, at least one shall be a van-accessible parking space.

(Add) **R322.6.1 Parking within or beneath a building.** Where parking is provided within or beneath a building, accessible parking spaces shall also be provided within or beneath the building.

**Exception:** Private parking garages within or beneath the building that contain no more than two parking spaces, that are

reserved for the exclusive use of a specific dwelling unit and are directly accessed from that dwelling unit are not required to be accessible.

(Add) **R322.6.2 Automobile accessible parking spaces.** Pursuant to subsection (h) of section 14-253a of the Connecticut General Statutes, parking spaces for passenger motor vehicles designated for the handicapped shall be as near as possible to a building entrance or walkway and shall be 15 feet wide including 5 feet of cross hatch. Cross-hatched portions shall not be shared between spaces.

(Add) **R322.6.3 Van accessible parking spaces.** Pursuant to subsection (h) of section 14-253a of the Connecticut General Statutes, parking spaces for passenger vans designated for the handicapped shall be as near as possible to a building entrance or walkway and shall be 16 feet wide including 8 feet of cross hatch. Cross-hatched portions shall not be shared between spaces.

(Add) **R322.6.3.1 Van access clearance.** Pursuant to subsection (i) of section 14-253a of the Connecticut General Statutes, each public parking garage or terminal shall have 8 feet 2 inches vertical clearance at a primary entrance and along the route to at least two parking spaces for passenger vans that conform to Section R322.6.3 and that have 8 feet 2 inches of vertical clearance.

(Add) **R322.7 Recreational facilities.** In townhouse occupancies where recreational facilities are provided, 25 per cent, but not less than one of each type of recreational facility serving the complex, shall be accessible in accordance with Chapter 11 of the 2003 International Building Code portion of the 2005 State Building Code.

(Add) **R322.8 Accessible common spaces.** Rooms and spaces available to the general public or common spaces available for use by residents and serving Type B units shall be accessible in accordance with Chapter 11 of the 2003 International Building Code portion of the 2005 State Building Code. Accessible common spaces shall include, but not be limited to, laundry facilities, toilet and bathing rooms, swimming pools, lounges, assembly spaces and any exterior spaces, including patios, terraces and balconies.

**Exception:** Recreational facilities in accordance with Section R322.7.

## CHAPTER 4 – FOUNDATIONS

(Amd) **R403.1 General.** All exterior walls shall be supported on continuous solid or fully grouted masonry or concrete footings, wood foundations or other approved structural systems which shall be of sufficient design to accommodate all loads according to Section R301

and to transmit the resulting loads to the soil within the limitations as determined from the character of the soil.

**Exception:** Freestanding accessory structures with an area of 600 square feet or less and an eave height of 10 feet or less.

Footings and freestanding accessory structures as exempted above shall be supported on undisturbed natural soils or engineered fill.

(Amd) **R403.1.4.1 Frost protection.** Except where otherwise protected from frost, foundation walls, piers and other permanent supports of buildings and structures shall be protected from frost by one or more of the following methods:

1. Extending a minimum of 42 inches below finished grade;
2. Constructing in accordance with Section R403.3;
3. Constructing in accordance with ASCE 32-01; and
4. Erecting on solid rock.

Exceptions:

1. Freestanding accessory structures with an area of 600 square feet or less and an eave height of 10 feet or less shall not be required to be protected.
2. Decks not supported by a dwelling need not be provided with footings that extend below the frost line.

Footings shall not bear on frozen soil.

(Add) **R405.3 Above grade drainage.** Above grade drainage systems, including but not limited to gutters and downspouts, roof drains, yard drains, etc. shall not be connected to the foundation drainage system of concrete, masonry or wood foundations.

## CHAPTER 8 – ROOF-CEILING CONSTRUCTION

(Add) **R806.4 Conditioned attic assemblies.** Unvented conditioned attic assemblies (spaces between the ceiling joists of the top story and the roof rafters) are permitted when conditions 1 through 3 are met. Such attics shall not be required to be provided with a conditioned air supply or a source of heat.

1. No interior vapor retarders are installed on the ceiling side (attic floor) of the unvented attic assembly.
2. An air-impermeable insulation is applied in direct contact to the underside/interior of the structural roof deck. "Air-impermeable" shall be defined by ASTM E 283-04.
3. Sufficient insulation is installed to maintain the monthly average temperature of the condensing surface above 45 degrees F (7 degrees C). The condensing surface is defined as either the structural roof deck or the interior surface of an air-impermeable insulation applied in direct contact with the underside/interior of the structural roof deck. "Air-impermeable" shall be defined by ASTM E 283-04. For calculation purposes, an interior

temperature of 68 degrees F (20 degrees C) is assumed. The exterior temperature is assumed to be the monthly average outside temperature.

## **CHAPTER 11 – ENERGY EFFICIENCY**

(Amd) **N1101.2.1 Detached one- and two-family dwellings.** Compliance shall be demonstrated by either:

1. Meeting the requirements of this chapter for buildings with a glazing area that does not exceed 15 per cent of the gross area of those exterior walls that comprise a portion of the thermal envelope; or
2. Meeting the requirements of the 2006 International Energy Conservation Code.

(Amd) **N1101.2.2 Townhouses.** Compliance shall be demonstrated by either:

1. Meeting the requirements of this chapter for buildings with a glazing area that does not exceed 25 per cent of the gross area of those exterior walls that comprise a portion of the thermal envelope; or
2. Meeting the requirements of the 2006 International Energy Conservation Code.

## **(Add) N1105 SECTION N1105 – SWIMMING POOLS**

(Add) **N1105.1 Swimming pools.** Swimming pools shall be equipped with energy saving measures in accordance with Section 504.7 of the 2006 International Energy Conservation Code portion of the 2005 State Building Code.

## **CHAPTER 17 – COMBUSTION AIR**

(Add) **M1703.6 Mechanical combustion air supply.** Mechanical combustion air supply systems shall comply with manufacturer's installation instructions for both the fuel-burning appliance and the combustion air supply system.

## **CHAPTER 24 – FUEL GAS**

(Add) **G2411.1.1 Corrugated stainless steel tubing (CSST).** CSST gas piping shall be bonded in accordance with manufacturer's installation instructions.

(Amd) **G2415.1 Prohibited locations.** Piping shall not be installed in or through a circulating air duct, clothes chute, chimney or gas vent, ventilating duct, dumbwaiter or elevator shaft. Piping installed downstream of the point of delivery shall not extend through any

townhouse unit, including basements and underfloor spaces, other than the unit served by such piping.

**CHAPTER 29 – WATER SUPPLY AND DISTRIBUTION**

(Amd) **P2904.9.1.3 PVC plastic pipe.** A purple primer complying with ASTM F 656-96a shall be applied to all PVC solvent cemented joints. Solvent cement that is not purple in color for PVC plastic pipe conforming to ASTM D 2564-96a shall be applied to all joint surfaces.

**CHAPTER 30 – SANITARY DRAINAGE**

(Add) **P3006.3.6.1 PVC plastic pipe joints.** Joints in PVC plastic DWV piping shall comply with Section P2904.9.1.3 of this code.

**CHAPTER 35 – SERVICES**

(Add) **E3509.7.1 Corrugated stainless steel tubing (CSST).** CSST gas piping shall be bonded in accordance with manufacturer’s installation instructions.

**CHAPTER 38 – POWER AND LIGHTING DISTRIBUTION**

(Amd) **E3802.11 Bedroom outlets.** All branch circuits that supply 125-volt, single-phase, 15- and 20-ampere outlets installed in dwelling unit bedrooms shall be protected by an arc-fault circuit interrupter listed to provide protection of the entire branch circuit.

**CHAPTER 43 – REFERENCED STANDARDS**

(Amd) ICC International Code Council  
4051 W. Flossmoor Rd.  
Country Club Hills, Il  
60478

Standard reference number	Title	Referenced in code section number
IBC—03	International Building Code	. . . . R110.2, R322.1, R323.1, R323.1.5, R403.1.8, R1001.8.2, G2402.3
ICC EC—03	ICC Electrical Code—Administrative Provisions	. . . . .R107.3, G2402.3
IEBC—03	International Existing Building Code	. . . . .R101.2, G2401.1
IECC—06	International Energy Conservation Code	. . . . . R104.11
IFC—03	International Fire Code	. . . . . R102.7, G2402.3, G2412.2,

			G2423.1
IFGC—03	International Fuel Gas Code	.....	
		.R104.11, G2401.1	
IMC—03	International Mechanical Code	.....	
		R104.11, M2106.1,	
		G2402.3	
IPC—03	International Plumbing Code	.....	
		.R104.11, G2402.3	
IPSDC—03	International Private Sewage	.....	
	Disposal Code	.. R323.1.6	
IPMC—03	International Property	.....	
	Maintenance Code	.. R102.7	
SBCCI SSTD	Standard for Hurricane	.....	
10-99	Resistant Construction		R301.2.1.1

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**APPENDIX E - MANUFACTURED HOUSING USED AS DWELLINGS**

(Add) **AE600.1 General.** The provisions of Sections AE601 through AE606, inclusive, are applicable only upon request of the building permit applicant with the approval of the local building official.

**APPENDIX G – SWIMMING POOLS, SPAS AND HOT TUBS**

(Add) **AG102.1.1 Definitions.** Amend the following definition to read as follows:

**Residential.** That which is situated on the premises of a detached one- or two-family dwelling or which is accessory to an individual one-family townhouse for the exclusive use of its residents and invited guests.

(Amd) **AG106.2 Suction fittings.** All pool and spa suction outlets shall be provided with a cover that conforms with ASME/ANSI A112.19.8M-2007 or an approved channel drain system.

**Exception:** Surface skimmers.

(Add) **AG106.2.1 Fitting maintenance.** Any pool, spa or hot tub with a broken, loose or missing suction outlet cover shall be immediately placed out of service until repairs are completed and approved.

(Amd) **AG106.3 Atmospheric vacuum relief system required.** All pool and spa single or multiple outlet circulation systems other than pools equipped only with surface skimmers shall be equipped with atmospheric vacuum relief. Such vacuum relief systems shall include at least one approved or engineered method of the type specified herein, as follows:

1. Safety vacuum release system conforming to ASME A112.19.17, or

- 2. An approved gravity drainage system operating through a surge tank.

(Amd) **AG106.4 Dual drain separation.** Single or multiple pump circulation systems shall be provided with a minimum of two (2) suction outlets of the approved type. A minimum horizontal or vertical distance of three (3) feet shall separate such outlets. The separation distance shall be measured from near point of opening to near point of opening. These suction outlets shall be piped so that water is drawn through them simultaneously, distributed as evenly as possible, through a vacuum relief protected line to the pump or pumps.

(Amd) **AG108.1 General.** Amend the following standard:

(Amd) ANSI/ASME A112.19.8 2007 Suction Fittings for Use in Swimming Pools, Wading Pools, Spas and Hot Tubs .....AG 106.2

**AMENDMENTS TO THE 2005 NFPA 70 NATIONAL ELECTRICAL CODE**

(Amd) **210.12 Arc-fault circuit-interrupter protection.**

(Amd) **(B) Dwelling unit bedrooms.** All 120-volt, single-phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit bedrooms shall be protected by an arc-fault circuit interrupter, listed to provide protection of the entire branch circuit.

**Exception:** The location of the arc-fault circuit interrupter shall be permitted to be at other than the origination of the branch circuit in compliance with (a) and (b):

- (a) The arc-fault circuit interrupter installed within 6 feet of the branch circuit overcurrent device as measured along the branch circuit conductors.
- (b) The circuit conductors between the branch circuit overcurrent device and the arc-fault circuit interrupter shall be installed in a metal raceway or a cable with a metallic sheath.

(Add) **250.104 (B) (1) Corrugated stainless steel tubing (CSST).** CSST gas piping shall be bonded in accordance with manufacturer's installation instructions.

(Add) **300.4 (G) Cables and raceways installed under roof decking.** A cable- or raceway-type wiring method, installed in exposed or concealed locations under metal-corrugated sheet roof decking, shall be installed and supported so the nearest outside surface of the cable or raceway is not less than 1 ½ inch from the nearest surface of the roof decking.

**Exception:** Rigid metal conduit and intermediate metal conduit shall not be required to comply with 300.4(G).

**(Amd) 422.16 (B) (2) Built-in dishwashers and trash compactors.**

Built-in dishwashers and trash compactors shall be permitted to be cord-and-plug connected with a flexible cord identified as suitable for the purpose in the installation instructions of the appliance manufacturer where all of the following conditions are met.

(1) The flexible cord shall be terminated with a grounding-type attachment plug.

Exception: A listed dishwasher or trash compactor distinctly marked to identify it as protected by a system of double insulation, or its equivalent, shall not be required to be terminated with a grounding-type attachment plug.

(2) The length of the cord shall be (3 ft minimum to 4 ft maximum in length) measured from the face of the attachment plug to the plane of the rear of the appliance.

(3) Receptacles shall be located to avoid physical damage to the flexible cord.

(4) The receptacle shall be located in the space occupied by the appliance or adjacent thereto.

(5) The receptacle shall be readily accessible without removing the appliance.

**(Amd) 680.26 Equipotential bonding.**

**(Amd) (C) Equipotential bonding grid.** The parts specified in 680.26 (B) shall be connected to an equipotential bonding grid with a solid copper conductor, insulated, covered, or bare, not smaller than 8 AWG or rigid metal conduit or brass or other identified corrosion-resistant metal conduit. Connection shall be made by exothermic welding or by listed pressure connectors or clamps that are labeled as being suitable for the purpose and are of stainless steel, brass, copper, or copper alloy. The equipotential bonding grid shall conform to the contours of the pool and shall extend within or under paved walking surfaces for 3 feet horizontally beyond the inside walls of the pool and shall be permitted to be any of the following:

Exception: The equipotential bonding grid shall not be required to be installed under the bottom of or vertically along the walls of vinyl lined polymer wall, fiberglass composite or other pools constructed of nonconductive materials. Any metal parts of the pool, including metal structural supports, shall be bonded in accordance with 680.26 (B). For the purposes of this section, poured concrete, pneumatically applied (sprayed) concrete and concrete block, with painted or plastered coatings, shall be considered conductive material.

(1) **Structural Reinforcing Steel.** The structural reinforcing steel of a concrete pool or deck where the reinforcing rods are bonded together by the usual steel tie wires or the equivalent. Where deck reinforcing steel is not an integral part of the pool, the deck reinforcing steel shall be bonded

to other parts of the bonding grid using a minimum 8 AWG solid copper conductor. Connection shall be per 680.26 (D).

(2) Bolted or Welded Metal Pools. The wall of a bolted or welded metal pool.

(3) Alternate Means. This system shall be permitted to be constructed as specified in (a) through (c):

(a.) Materials and Connections. The grid shall be constructed of minimum 8 AWG bare solid copper conductors. Conductors shall be bonded to each other at all points of crossing. Connections shall be made as required by 680.26 (D).

(b.) Grid Structure. The equipotential bonding grid shall cover the contour of the pool and the pool deck extending 3 feet horizontally from the inside walls of the pool. The equipotential bonding grid shall be arranged in a 12 inch by 12 inch network of conductors in a uniformly spaced perpendicular grid pattern with tolerance of 4 inches.

(c.) Securing. The below-grade grid shall be secured within or under the pool and deck media.

### 700.8 Signs.

(Amd) **(A) Emergency sources.** A sign shall be placed at the service entrance equipment, at the meter location, and on any equipment up to the service entrance equipment indicating type and location of on-site emergency power sources.

**Exception:** A sign shall not be required for individual unit equipment as specified in 700.12(F).

### 701.9 Signs.

(Amd) **(A) Mandated standby.** A sign shall be placed at the service entrance, at the meter location, and on any equipment up to the service entrance equipment indicating type and location of on-site legally required standby power sources.

**Exception:** A sign shall not be required for individual unit equipment as specified in 701.11(G).

### 702.8 Signs.

(Amd) **(A) Standby.** A sign shall be placed at the service-entrance equipment, at the meter location, and on any equipment up to the service entrance equipment indicating type and location of on-site optional standby power sources. A sign shall not be required for individual unit equipment for standby illumination.

(Adopted effective December 31, 2005, amended August 1, 2009, October 6, 2011)