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## 1999 STATE BUILDING CODE

## 2004 AMENDMENT TO THE CONNECTICUT SUPPLEMENT

State Building Code –  
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29-252-1c

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**Sec. 29-252-1c. State Building Code –  
2004 Amendment to the Connecticut Supplement**

The BOCA National Building Code/1996, 2003 International Residential Code, 2003 International Energy Conservation Code, 1997 International Plumbing Code, 1996 International Mechanical Code, of the International Code Council, Inc. and the 2002 NFPA 70 National Electrical Code of the National Fire Protection Association Inc., except as amended, altered or deleted by the May 1, 1999 Connecticut Supplement, the April 7, 2000 Amendment to the Connecticut Supplement and the 2004 Amendment to the Connecticut Supplement, are hereby adopted by reference as the 1999 State Building Code.

Copies of the BOCA Code and the International Codes may be obtained from the International Code Council, Inc., 4051 W. Flossmoor Rd., Country Club Hills, IL 60478-5795 (website: [www.iccsafe.org](http://www.iccsafe.org)). Copies of the National Electrical Code may be obtained from the National Fire Protection Association Inc., One Batterymarch Park, Quincy, MA 02269 (website: [www.nfpa.org](http://www.nfpa.org)). Copies of the May 1, 1999 Connecticut Supplement and the April 7, 2000 Amendment to the Connecticut Supplement are available from the Commission on Official Legal Publications, 111 Phoenix Avenue, Enfield, Connecticut 06082-4453. Copies of the 2004 Amendment to the Connecticut Supplement may be downloaded from [www.state.ct.us/dps/dfeps/osbi](http://www.state.ct.us/dps/dfeps/osbi).

**2004 AMENDMENT TO THE 1999 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 BOCA NATIONAL BUILDING CODE/1996**

**CHAPTER 1 - ADMINISTRATION**

(Amd) **101.1 Title:** Section 29-252-1c, together with the BOCA National Building Code/1996, the 1997 International Plumbing Code, the 1996 International Mechanical Code, the 2002 National Electrical Code, the 2003 International Residential Code and the 2003 International Energy Conservation Code, shall be known as the 1999 State Building Code, hereinafter referred to as "the code" or "this code."

(Amd) **118.5 Retention of construction documents.** In accordance with the provisions of subsection (e) of section 29-261 of the Connecticut General Statutes, upon receipt of a written request signed by the owner of plans and specifications on file for a single-family dwelling or out-building, the building official shall immediately return the original plans and specifications to the owner after a certificate of occupancy is issued with respect to the plans and specifications. One set of approved construction documents for buildings and structures other than single-family dwellings or outbuildings shall be retained by the building official for a period as set forth in the records/disposition schedule adopted pursuant to chapter 188 of the Connecticut General Statutes.

(Amd) **310.6 Use group R-4 structures:** This use group shall include all detached one- or 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. All such structures shall be designed and constructed in accordance with the 2003 International Residential Code portion of the 1999 State Building Code.

## CHAPTER 35 – REFERENCED STANDARDS

### (Amd) CODES

Standard reference number	Title	Referenced in code section number
SFSC - 99	State Fire Safety Code.....	102.2 201.3, 307.2, 307.8, Table 307.8(1), Table 307.8(2), 408.6, 412.3.7, 415.1, 416.14, 416.14.2, 417.1, 417.2.1, Table 417.2.1.1, 417.3, 417.5, 417.5.1, 417.5.2, 417.5.3, 417.5.5, 417.6, 417.6.1, 417.6.3, 418.1, 418.2, 418.2.1, 418.3, 418.3.1, 418.3.2, 418.3.2.3, 418.3.3, 418.4, 418.5, 419.2.3, 705.2.1, 707.1.1, 901.2, 901.4, 901.7, 904.5, 915.1, 921.2, 3103.1, 3305.1, 3305.2, 3401.2, 3401.4, 3408.3.2, 3408.6.8.1, 3408.6.14, 3408.6.14.1
IMC - 96	ICC International Mechanical Code.....	201.3 307.8, 408.4.1, 408.5, 411.3, 416.9, 417.1, 417.3, 418.3.1.4, 418.3.2, 418.3.3, 418.3.4, 419.2, 419.2.1, 602.4.2, 602.4.3, 718.2, 723.2, 910.6, 914.1, 1005.7, 1203.1, 1208.3, 1209.1, 1210.3, 2305.12, 2702.2, 2801.2, 2802.1, 2802.3, 2804.1, 2805.2.3, 2805.2.4, 2808.3, 2809.1, 3007.5, 3107.6, 3309.2, 3401.3, 3408.6.8, 3408.6.8.1
IPC - 97	ICC International Plumbing Code.....	201.3 408.4, 418.3.4, 602.4.3, 907.6.2, 11102.1, 1108.2, 1108.2.1, 1108.3, 1212.7, 1510.7.2, 1813.5.3, 2901.1, 2902.3, 2904.3, 2905.4.2, 2908.1, 2908.2, 3107.9, 3401.3
IRC - 03	International Residential Code.....	310.6
IECC - 03	International Energy Conservation Code.....	1301.1

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(Amd) **NFPA** National Fire Protection Association  
 Batterymarch Park  
 Quincy, MA 02269

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Standard reference number	Title	Referenced in code section number
10 - 98	Portable Fire Extinguishers.....	921.2
11 - 02	Low Expansion Foam.....	911.1, 911.5
11A - 02	Medium- and High Expansion Foam Systems.....	911.1, 911.5
12 - 00	Carbon Dioxide Extinguishing Systems.....	909.1, 909.5
12A - 97	Halon 1301 Fire Extinguishing Systems.....	912.1, 912.5
13 - 99	Installation of Sprinkler Systems.....	409.2.2 409.5, 412.3.6, 412.7, 416.4, 706.2, 906.2.1, 906.9.1, 907.2.1, 907.6.1, 915.5.1, 918.7.3, 1610.6.4, 3011.2.2
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13R - 99	Installation of Sprinkler System in Residential Occupancies Up to and Including Four Stories in Height.....	906.2.2, 924.1
14 - 96	Standpipe and Hose Systems.....	915.1 915.4.1, 915.12.1
15 - 01	Water Spray Fixed Systems for Fire Protection.....	908.1, 908.4
16 - 03	Installation of Deluge Foam-Water Sprinkler and Foam-Water Spray Systems.....	911.1, 911.5
17 - 02	Dry Chemical Extinguishing Systems.....	910.1, 910.5
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24 - 02	Installation of Private Fire Service Mains. ....	417.6.3 906.9.1, 915.12.1
30 - 96	Flammable and Combustible Liquids Code.....	307.8 418.3.2, 419.2.3
30A - 96	Automotive and Marine Service Station Code.....	408.6, 417.6.6
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65 - 93	Processing and Finishing of Aluminum.....	418.3.1
69 - 02	Explosion Prevention Systems.....	417.5.1.2
70 - 02	National Electrical Code.....	416.11 416.14.6, 416.15.2, 421.10.1, 602.4.4, 1405.4.3, 2701.1, 2701.3, 2705.1, 2706.1, 2707.1, 2708.3 2805.2.5, 3102.6.3, 3102.13.1, 3107.6
72 - 99	National Fire Alarm Code.....	403.6 417.5.3, 918.1, 918.6, 918.7, 918.8.2, 918.9,

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102 - 95 Assembly Seating, Tents, and Membrane Structures.....3104.4

120 - 99 Coal Preparation Plants.....418.3.1

231C - 98 Rack Storage of Materials.....507.1, Table 923.2

418 - 95 Standard for Heliports.....1511.3

495 - 01 Explosive Materials Code.....Table 307.8 (1)  
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704 - 01 Identification of the Fire Hazards of Materials.....416.2  
416.15.1

8503 - 97 Pulverized Fuel Systems.....418.3.1

(Del) **AMENDMENTS TO THE CABO ONE AND TWO FAMILY DWELLING CODE 1995 EDITION.** Delete the amendments to the CABO One and Two Family Dwelling Code 1995 Edition in their entirety and substitute the following amendments to the 2003 International Residential Code:

## **AMENDMENTS TO THE 2003 INTERNATIONAL RESIDENTIAL CODE**

### **CHAPTER 1 – ADMINISTRATION**

(Amd) **R101.1 Title.** These regulations shall be known as the 2003 International Residential Code for One- and Two-Family Dwellings portion of the 1999 State Building Code, hereinafter referred to as “the code” or “this code.”

(Add) **R101.4 Referenced codes and regulations.**

(Add) **R101.4.1 Existing buildings.** The 2003 International Existing Building Code is not adopted by the State of Connecticut. Regulation of existing buildings shall be in accordance with the provisions of this code or the provisions of Chapter 34 of the BOCA National Building Code/1996 portion of the 1999 State Building Code. References to the International Existing Building Code within the body of the model document shall be considered references to such codes.

(Add) **R101.4.2 Fuel gas.** The 2003 International Fuel Gas Code is not adopted by the State of Connecticut. In addition to the requirements of this code, the installation and operation of gas equipment and piping shall comply with sections 29-329 and 29-331 of the Connecticut General Statutes, and the regulations known as the Connecticut Gas Equipment and Piping Code adopted by the Commissioner of Public Safety under authority of section 29-329 of the Connecticut General Statutes, and the regulations known as the Connecticut Liquefied Petroleum Gas and Liquefied Natural Gas Code adopted by the Commissioner of Public Safety under authority of section 29-331 of the Connecticut General Statutes. References to the International Fuel Gas Code within the body of the model document shall be considered to be references to such statutes and regulations.

(Add) **R101.4.3 Oil burning equipment, piping and storage.** In addition to the requirements of this code, the installation of oil burners and equipment used in connection therewith, including tanks, piping, pumps, control devices and accessories shall comply with sections 29-316 and 29-317 of the Connecticut General Statutes, and the regulations known as the Connecticut Oil Burning Equipment Code adopted by the Commissioner of Public Safety under authority of section 29-317 of the Connecticut General Statutes.

(Add) **R101.4.3.1 Local regulations.** Pursuant to section 29-316 of the Connecticut General Statutes, the warden or burgesses of a borough, the selectmen of a town, the common council of a city or the commissioners of a fire district may enact rules and regulations for the installation of fuel oil burners, equipment therefore and fuel oil storage tanks.

(Add) **R101.4.4 Private sewage disposal.** The 2003 International Private Sewage Disposal Code is not adopted by the State of Connecticut. Private sewage disposal systems shall be designed and installed in accordance with the Public Health Code adopted under authority of section 19a-36 of the Connecticut General Statutes. References to the International Private Sewage Disposal Code within the body of the model document shall be considered to be references to the Public Health Code.

(Add) **R101.4.5 Property maintenance.** The 2003 International Property Maintenance Code is not adopted by the State of Connecticut. Property maintenance shall be in accordance with the

requirements of this code or the requirements of local property maintenance codes when such codes are adopted by the town, city or borough. All references to the International Property Maintenance Code found within the body of the model document shall be considered null and void.

(Add) **R101.4.6 Fire prevention.** The 2003 International Fire Code is not adopted by the State of Connecticut. All references to the International Fire Code within the body of the model document shall be considered to be references to the 1999 Connecticut State Fire Safety Code.

(Add) **R101.4.7 Other occupancies.** The 2003 International Building Code is not adopted by the State of Connecticut. All references to the International Building Code within the body of the model document shall be considered references to applicable sections of the BOCA National Building Code/1996 portion of the 1999 State Building Code.

(Amd) **R102.5 Appendices.** The following appendices of the 2003 International Residential Code for One- and Two-Family Dwellings are hereby specifically adopted and included in this code: E; G; H; K; L; and M.

(Amd) **R102.7 Existing structures.** The legal occupancy of any building or structure existing on the date of adoption of this code shall be permitted to continue without change, except as specifically covered in this code.

(Del) **SECTION R103 – DEPARTMENT OF BUILDING SAFETY.** Delete Section 103 in its entirety and replace with the following:

(Add) **SECTION R103 – ENFORCEMENT AGENCY**

(Add) **R103.1 Creation of enforcement agency.** Each town, city and borough shall create an agency whose function is to enforce the provisions of this code. The official in charge thereof shall be known as the building official.

(Add) **R103.2 Appointment.** The chief executive officer of any town, city or borough shall appoint an officer to administer this code, and this officer shall be known as the "building official" in accordance with section 29-260 of the Connecticut General Statutes, and referred to herein as the building official, local building official or code official.

(Add) **R103.3 Employees.** In accordance with the prescribed procedures and regulations of the town, city or borough, and with the concurrence of the appointing authority, the building official shall have the authority to appoint an assistant building official, related technical officers, inspectors, plan examiners and other employees. Such employees shall have the powers as regulated by the town, city or borough, and by the State of Connecticut.

(Add) **R103.4 Restriction of employees.** An official or employee connected with the agency created to enforce the provisions of this code pursuant to Section R103.1, except one whose only connection with it is that of a member of the board of appeals established under the provisions of Section R112, shall not be engaged in, or directly or indirectly connected with, the furnishing of labor, materials or appliances for the construction, addition, alteration, repair or maintenance of a building located in the town, city or borough in which such official or employee is employed, or the preparation of construction documents therefore, unless that person is the owner of the building. Such officer or employee shall not engage in any work that conflicts with official duties or with the interests of the agency.

(Amd) **R104.1 General.** The building official is hereby authorized and directed to enforce the provisions of this code. The building official shall have the authority to adopt policies and

procedures in order to clarify the application of its provisions. Such policies and procedures shall be in compliance with the intent and purpose of this code. Such policies and procedures shall not have the effect of waiving requirements specifically provided for in this code, nor shall they have the effect of establishing requirements in excess of those set forth in this code.

(Add) **R104.1.1 Rule making authority.** Pursuant to the provisions of subsection (a) of section 29-252 of the Connecticut General Statutes, the State Building Inspector and the Codes and Standards Committee shall, jointly, with the approval of the Commissioner of Public Safety, adopt and administer a State Building Code for the purpose of regulating the design, construction and use of buildings or structures to be erected and the alteration of buildings or structures already erected and make such amendments thereto as they, from time to time, deem necessary or desirable.

(Amd) **R104.6 Right of entry.** In accordance with the provisions of subsection (d) of section 29-261 of the Connecticut General Statutes, the building official or his assistant shall have the right of entry to such buildings or structures, except single-family residences, for the proper performance of his duties between the hours of nine a.m. and five p.m., except that in the case of an emergency he shall have the right of entry at any time, if such entry is necessary in the interest of public safety. On receipt of information from the local fire marshal or from any other authentic source that any building in his jurisdiction, due to lack of exit facilities, fire, deterioration, catastrophe or other cause, is in such condition as to be a hazard to any person or persons, the building official or his assistant shall immediately make inspection in accordance with the provisions of section 29-393 of the Connecticut General Statutes.

(Amd) **R104.10 Modifications.** The State Building Inspector may grant variations or exemptions from, or approve equivalent or alternative compliance with, the State Building Code where strict compliance with the State Building Code would entail practical difficulty or unnecessary hardship, or is otherwise adjudged unwarranted, provided that the intent of the law shall be observed and public welfare and safety be assured. Any person aggrieved by any decision of the State Building Inspector may appeal to the Codes and Standards Committee within 14 days after mailing of the decision in accordance with subsection (b) of section 29-254 of the Connecticut General Statutes.

(Del) **R104.10.1 Areas prone to flooding.** Delete and substitute the following:

(Add) **R104.10.1 Records.** The application for modification, variation or exemption and the decision of the State Building Inspector shall be in writing and shall be officially recorded with the application for a building permit in the permanent records of the building department.

(Add) **R104.10.2 Historic structures exemption.** Pursuant to section 29-259 of the Connecticut General Statutes, exemptions may be granted to the provisions of this code for historic structures as defined by section 10-320c of the Connecticut General Statutes, which have been classified as such in the State Register of Historic Places, as long as the provisions of subsection (b) of section 29-259 of the Connecticut General Statutes are adhered to and provided that such exemptions shall not affect the safe design, use or construction of such property.

(Add) **R104.10.3 Urban homesteading property exemption.** In accordance with section 29-259 of the Connecticut General Statutes, exemptions may be granted to the provisions of this code for property acquired by an urban homesteading agency, pursuant to section 8-169r of the Connecticut General Statutes, and transferred to a qualified applicant pursuant to section 8-169s of the Connecticut General Statutes, provided such exemptions shall not affect the safe design, use or construction of such property. Exemptions shall be granted in accordance with Section R104.10 of this code.



(Add) **R104.11.2 Research reports.** Submission to the local building official of a valid research report prepared by an approved evaluation service that supports the efficacy of use of any material, appliance, equipment or method of construction not specifically provided for in this code, or that demonstrates compliance with this code, shall be deemed evidence of compliance with this code.

(Add) **R105.1.1 By whom application is made.** Application for a permit shall be made by the owner in fee or by an authorized agent. If the application is made by a person other than the owner in fee, it shall be accompanied by an affidavit of the owner or a signed statement of the applicant witnessed by the building official or his designee to the effect that the proposed work is authorized by the owner in fee and that the applicant is authorized to make such application. If the authorized agent is a contractor, the provisions of section 20-338b of the Connecticut General Statutes shall be followed. The full names and addresses of the owner, agent and the responsible officers, if the owner or agent is a corporate body, shall be stated in the application.

(Amd) **R105.2 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 town, city or borough, or the State of Connecticut. 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.
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.
5. Painting, papering, tiling, carpeting, cabinets, countertops and similar finish work not involving structural changes or alterations.
6. Prefabricated swimming pools that are less than 24 inches deep.
7. Swings, non-habitable tree houses and other playground equipment accessory to a one or two-family dwelling.
8. Window awnings supported by an exterior wall which do not project more than 54 inches from the exterior wall and which do not require additional support.

**Electrical:**

Repairs and maintenance: A permit shall not be required for minor repair work, including replacement of lamps and fuses or the connection of approved portable electrical equipment to approved permanently installed receptacles.

**Gas:**

1. Portable heating or cooking appliances with a self-contained fuel supply.
2. Replacement of any minor part that does not alter approval of equipment or make such equipment unsafe.
3. Portable fuel cell appliances that are not connected to a fixed piping system and are not interconnected to a power grid.

**Mechanical:**

1. Portable heating appliances with a self-contained fuel supply.
2. Portable ventilation appliances.
3. Portable cooling units.

4. Steam, hot or chilled water piping contained within any heating or cooling equipment regulated by Chapters 18 through 24 of this code.
5. Replacement of any minor part that does not alter approval of equipment or make such equipment unsafe.
6. Portable evaporative coolers.
7. Self-contained refrigeration systems containing 10 pounds or less of refrigerant or that are actuated by motors of 1 horsepower or less.
8. Portable fuel cell appliances that are not connected to a fixed piping system and are not interconnected to a power grid.

Plumbing:

1. The stopping of leaks in drains, water, soil, waste or vent pipe; provided, however, that if any concealed trap, drainpipe, water, soil, waste or vent pipe becomes defective and it becomes necessary to remove and replace the same with new material, such work shall be considered as new work and a permit shall be obtained and inspection made as provided in Sections R105 and R109 of this code.
2. The clearing of stoppages or the repairing of leaks in pipes, valves or fixtures, and the removal and reinstallation of water closets, provided such repairs do not involve or require the replacement or rearrangement of valves, pipes or fixtures.

(Amd) **R105.3.1 Action on application.** The building official shall examine or cause to be examined applications for permits and amendments thereto within 30 days after filing and either issue or deny a permit within such 30-day period. If the application or construction documents do not conform to the requirements of this code and pertinent laws, the building official shall reject such application in writing, stating the reasons therefore. If the building official is satisfied that the proposed work conforms to the requirements of this code and applicable laws, statutes, regulations and ordinances, the building official shall issue a permit therefore as soon as practicable.

(Add) **R105.3.1.2 Zoning approval.** Pursuant to subsection (f) of section 8-3 of the Connecticut General Statutes, no building permit shall be issued for a building, use or structure subject to the zoning regulations of a municipality without certification in writing by the official charged with the enforcement of such regulations that such building, use or structure is in conformity with such regulations or is a valid nonconforming use under such regulations.

(Amd) **R105.5 Expiration of permit.** Every permit issued shall become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time the work is commenced. The building official is authorized to grant, in writing, one or more extensions of time, for periods of not more than 180 days each. ~~The extensions shall be requested in writing and justifiable cause shall be demonstrated.~~

**Exception:** The building official shall be permitted to specify an expiration date of not less than 30 days, nor more than 180 days for commencement of work under permits issued to abate unsafe conditions pursuant to Section R115 of this code. Work performed under such permits shall be completed as expeditiously as possible.

(Add) **R106.2.1 Private sewage disposal system.** The site plan shall indicate the location of a private sewage disposal system where a public sewer is not available. Private sewage disposal systems shall be designed and installed in accordance with the requirements of the Public Health Code adopted under authority of section 19a-36 of the Connecticut General Statutes. All technical and soil data required by the Public Health Code shall be submitted with the site plan. Approval of such systems shall be by the local authority having jurisdiction. When such approval is required by the local authority having jurisdiction, written proof of such approval shall be submitted to the building official prior to issuance of a building permit.

(Amd) **R106.5 Retention of construction documents.** In accordance with the provisions of subsection (e) of section 29-261 of the Connecticut General Statutes, upon receipt of a written request signed by the owner of plans and specifications on file for a single-family dwelling or out-building, the building official shall immediately return the original plans and specifications to the owner after a certificate of occupancy is issued with respect to the plans and specifications.

(Amd) **R107.1 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.

**Exceptions:** The following shall be exempt from permit requirements:

1. Tents used exclusively for recreational camping purposes.
2. Tents less than 350 square feet total area.
3. 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.

(Amd) **R107.3 Temporary power.** The building official is authorized to give permission to temporarily supply and use power in part of an electrical installation before such installation has been fully completed and the final certificate of occupancy or certificate of approval has been issued. The part covered by the temporary permission shall comply with the requirements specified for temporary lighting, heat or power in this code or in the 2002 National Electrical Code portion of the 1999 State Building Code.

(Amd) **R108.2 Schedule of permit fees.** 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.

(Add) **R109.1.7 Posting for required inspections.** A schedule of required inspections shall be compiled by the building official. The schedule shall be posted in the building department for public view.

(Amd) **R110.1 Use and occupancy.** Pursuant to subsection (a) of section 29-265 of the Connecticut General Statutes, no building or structure erected or altered in any municipality after October 1, 1970, shall be occupied or used, in whole or in part, until a certificate of occupancy has been issued by the building official, certifying that such building, structure or work performed pursuant to the building permit substantially conforms to the provisions of the State Building Code. Nothing in the code shall require the removal, alteration or abandonment of, or prevent the continuance of the use and occupancy of, any single-family dwelling but within six years of the date of occupancy of such dwelling after substantial completion of construction of, alteration to or addition to such dwelling, or of a building lawfully existing on October 1, 1945, except as may be necessary for the safety of life or property. The use of a building or premises shall not be deemed to have changed because of a temporary vacancy or change of ownership or tenancy.

**Exceptions:**

1. Work for which a certificate of approval is issued in accordance with Section R110.9.
2. Certificates of occupancy are not required for work exempt from permit requirements under Section R105.2.

(Add) **R110.1.1 Zoning approval.** Pursuant to subsection (f) of section 8-3 of the Connecticut General Statutes, no certificate of occupancy shall be issued for a building, use or structure subject to the zoning regulations of a municipality without certification in writing by the official

charged with the enforcement of such regulations that such building, use or structure is in conformity with such regulations or is a valid nonconforming use under such regulations.

(Add) **R110.6 Partial occupancy.** A partial certificate of occupancy shall be permitted to be issued by the building official for a portion of the building or structure when in the building official's sole opinion, the portion of the building to be occupied is in substantial compliance with the requirements of this code and no unsafe conditions exist in portions of the building not covered by the partial certificate of occupancy that are accessible from the occupied portion.

(Add) **R110.7 Prefabricated assemblies.** A certificate of approval by an approved agency shall be furnished with every prefabricated assembly, including modular housing, except where all elements of the assembly are readily accessible for inspection at the site. Placement of prefabricated assemblies and the connections to public utilities and private water and septic systems at the building site, as well as any site built or installed components or equipment shall be inspected by the building official to determine compliance with this code. A final inspection shall be provided in accordance with Section R109.1.6.

(Add) **R110.8 Manufactured housing used as dwellings.** Provisions for foundation systems and building service equipment connections necessary to provide for the installation of new manufactured homes and for existing manufactured homes to which additions, alterations or repairs are made are contained in Appendix E.

(Add) **R110.9 Certificate of approval.** A certificate of approval shall be issued indicating substantial compliance with the requirements of this code for all completed work that requires a building permit but does not require a certificate of occupancy. Such work shall include, but not be limited to: re-roofing; re-siding; fences over 6 feet in height; retaining walls over 3 feet in height; and electrical, plumbing and mechanical repairs or alterations performed in the absence of additional work that requires a certificate of occupancy.

(Del) **SECTION R112 - BOARD OF APPEALS** Delete this section in its entirety and replace with the following:

(Add) **SECTION R112 – MEANS OF APPEAL**

(Add) **R112.1 Appeal from decision of building official.** Pursuant to subsection (a) of section 29-266 of the Connecticut General Statutes, when the building official rejects or refuses to approve the mode or manner of construction proposed to be followed or the materials to be used in the erection or alteration of a building or structure, or when it is claimed that the provisions of the code do not apply or that an equally good or more desirable form of construction can be employed in a specific case, or when it is claimed that the true intent and meaning of the code has been misconstrued or wrongly interpreted, the permit, in whole or in part, having been refused by the building official, or when the building official issues a written order under subsection (c) of section 29-261 of the Connecticut General Statutes, the owner of such building or structure, whether already erected or to be erected, or his authorized agent may appeal in writing from the decision of the building official to the municipal board of appeals. A person, other than such owner, who claims to be aggrieved by any decision of the building official may, by himself or his authorized agent, appeal in writing from the decision of the building official to the municipal board of appeals as provided by subsection (a) of section 29-266 of the Connecticut General Statutes.

(Add) **R112.1.1 State Building Inspector review.** In accordance with the provisions of subsection (d) of section 29-252 of the Connecticut General Statutes, the State Building Inspector or his designee shall review a decision by a local building official or municipal board of appeals appointed pursuant to section 29-266 of the Connecticut General Statutes, when he

has reason to believe that such official or board has misconstrued or misinterpreted any provision of the State Building Code.

(Add) **R112.2 Appointment of municipal board of appeals.** A municipal board of appeals consisting of five members shall be appointed in accordance with the provisions of subsection (a) of section 29-266 of the Connecticut General Statutes.

(Add) **R112.2.1 Qualifications.** One member of the municipal board of appeals shall be appointed from the general public. The other four members shall have at least five years experience each in building design, building construction, or supervision of building construction.

(Add) **R112.2.2 Chairman.** The board shall annually select one of its members to serve as chairman.

(Add) **R112.3 Notice of meeting.** Each appeal under this subsection shall be heard in the municipality for which the building official serves within five days, exclusive of Saturdays, Sundays, and legal holidays, after the date of receipt of the appeal.

(Add) **R112.4 Determination of aggrievement.** Upon receipt of an appeal from a person other than the owner or his agent, the board of appeals shall first determine whether such person has a right to appeal.

(Add) **R112.5 Appointment of a panel.** Upon receipt of an appeal from an owner or his agent, or approval of an appeal by a person other than the owner or his agent, the chairman of the municipal board of appeals shall appoint a panel of not less than three members of such board to hear such appeal.

(Add) **R112.6 Rendering of decisions.** The panel shall, upon majority vote of its members, affirm, modify or reverse the decision of the building official in a written decision upon the appeal and file such decision with the building official from whom such appeal has been taken not later than five days, exclusive of Saturdays, Sundays and legal holidays, following the day of the hearing thereon. A copy of the decision shall be mailed, prior to such filing, to the party taking the appeal.

(Add) **R112.7 Appeal to the Codes and Standards Committee.** Any person aggrieved by the decision of a municipal board of appeals may appeal to the Codes and Standards Committee within 14 days after the filing of the decision with the building official in accordance with the provisions of section 29-266 of the Connecticut General Statutes.

(Add) **R112.8 Court review.** Any person aggrieved by any ruling of the Codes and Standards Committee may appeal to the Superior Court for the judicial district where such building or structure has been or is being erected.

(Amd) **R113.4 Violation penalties.** Any person who violates any provision of this code shall be fined not less than two hundred nor more than one thousand dollars or imprisoned not more than six months or both, pursuant to section 29-254a of the Connecticut General Statutes.

(Amd) **R114.2 Unlawful continuance.** Any person who shall continue 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 conditions, shall be liable for penalties in accordance with Section R113.4.

**(Add) SECTION R115 - UNSAFE STRUCTURES AND EQUIPMENT**

(Add) **R115.1 General:** The procedures to be followed regarding unsafe structures and equipment shall be as set forth in Section 119 of the BOCA National Building Code/1996 portion of the 1999 State Building Code.

**(Add) SECTION R116 - EMERGENCY MEASURES**

(Add) **R116.1 General:** The procedures to be followed regarding emergency measures shall be as set forth in Section 120 of the BOCA National Building Code/1996 portion of the 1999 State Building Code.

**CHAPTER 2 - DEFINITIONS****(Amd) SECTION R202 - 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.

(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 Wind limitations.** Buildings and structures and portions thereof shall be limited by wind speed and construction methods in accordance with this code. Basic wind speeds shall be determined by Appendix M. Where different construction methods and structural materials are used for various portions of a building or structure, the applicable requirements of this section for each portion shall apply. Where loads for windows, skylights and exterior doors are not otherwise specified, the loads listed in Table R301.2(2) adjusted for height and exposure per Table R301.2(3), shall be used to determine design load performance requirements for windows and doors.

(Amd) **R301.2.1.1 Design criteria.** Construction in locations where the basic wind speed as determined by Appendix M equals or exceeds 110 miles per hour shall be designed in accordance with one of the following:

1. American Forest and Paper Association (AF&PA) *Wood Frame Construction Manual for One- and Two-Family Dwellings* (WFCM); or
2. *Southern Building Code Congress International Standard for Hurricane Resistant Residential Construction* (SSTD 10); or
3. *Minimum Design Loads for Buildings and Other Structures* (ASCE-7); or
4. American Iron and Steel Institute (AISI), *Standard for Cold-Formed Steel Framing - Prescriptive Method for One- and Two-Family Dwellings* (COFS/PM).
5. Concrete construction shall be designed in accordance with the provisions of this code.

**(Amd) TABLE R301.2(1) CLIMATIC AND GEOGRAPHICAL DESIGN CRITERIA:**

**GROUND SNOW LOAD:** 30 pounds per square foot

**WIND SPEED (mph):** Basic Wind Speed (3 second gust) shall be as set forth in Appendix M.

**SEISMIC DESIGN CATEGORY:** Fairfield County: C; all other locations: B

**SUBJECT TO DAMAGE FROM:**

**Weathering:** Severe

**Frost Line Depth:** 42 inches

**Termite:** Moderate to Heavy

**Decay:** Slight to Moderate

**WINTER DESIGN TEMPERATURE:** 7° F

**ICE SHIELD UNDERLAYMENT REQUIRED:** Yes

**FLOOD HAZARDS:** To be determined locally.

**AIR FREEZING INDEX:** 1500 or less

**MEAN ANNUAL TEMPERATURE:** 50° F

(Amd) **R301.6 Roof load.** Roofs shall be designed for the 30 pound snow load indicated in Table R301.2(1).

(Del) **Table R301.6 – MINIMUM ROOF LIVE LOADS IN POUNDS-FORCE PER SQUARE FOOT OF HORIZONTAL PROJECTION.** Delete table in its entirety without substitution.

(Add) **R301.9 Ungraded lumber.** Pursuant to section 29-256b of the Connecticut General Statutes, the use of ungraded lumber is allowed in accessory structures.

(Amd) **R302.1 Exterior walls.** Exterior walls with a fire separation distance less than 3 feet shall have not less than a one-hour fire-resistive rating with exposure from both sides. Projections shall not extend to a point closer than 2 feet from the line used to determine the fire separation distance.

**Exception:** Detached garages accessory to a dwelling located within 2 feet of a lot line may have roof eave projections not exceeding 4 inches.

Projections extending into the fire separation distance shall have not less than one-hour fire-resistive construction on the underside. The above provisions shall not apply to walls that are perpendicular to the line used to determine the fire separation distance.

(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 percent 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, 6 inches.

(Amd) **R309.1 Opening protection.** Openings from a private garage directly into a room used for sleeping purposes shall not be permitted. Other openings between the garage and residence shall be equipped with solid wood doors not less than 1 3/8 inches in thickness, solid or honeycomb core steel doors not less than 1 3/8 inches in thickness or 20-minute fire-rated doors in solid wood jambs. Doors between the garage and the residence shall be equipped with a self-closing device.

(Amd) **R309.2 Separation required:** Garages attached side by side to residences shall be separated from the residence and its attic area by means of a minimum 5/8-inch type X gypsum board applied to the garage side. Garages beneath habitable rooms, closets, bathrooms, toilet rooms, halls or utility spaces in residences shall be separated from adjacent interior spaces by a minimum 5/8-inch type X gypsum board applied to the garage side of all walls, ceilings and combustible structural supports. Gypsum board joints shall be finished in accordance with the manufacturer's requirements.

**Exception:** Wood structural members of the minimum dimensions specified in Section 2304.0 of the BOCA National Building Code/1996 portion of the 1999 State Building Code for Type 4 construction shall be acceptable without further protection.

(Amd) **R310.1 Emergency escape and rescue openings required.** Basements with habitable space 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.

(Amd) **R310.1.1 Minimum opening area.** All emergency escape and rescue openings shall have a minimum net clear opening of 5.7 square feet.

**Exception:** Openings whose bottom edge is within 44 inches of exterior grade shall have a minimum net clear opening of 5 square feet.

(Amd) **R310.1.4 Operational constraints.** Emergency escape and rescue openings shall be operational from the inside of the room without the use of a key or tool and the net clear opening dimensions shall be obtained by the normal operation of the opening from the inside.

**Exception:** Existing buildings undergoing alterations or installation of replacement windows shall be permitted to utilize removable sash to achieve the required minimum net clear openings. Such removable sash shall be capable of being removed without the use of a key or tool.



(Amd) **R311.4.2 Door type and size.** The required exit door shall be a side-hinged door not less than 3 feet in width and 6 feet 8 inches in height. Other doors shall be permitted to be side-hinged, swinging, sliding, bi-fold or revolving doors, shall not be required to comply with the minimum door width and shall be permitted to be not less than 6 feet 6 inches in height.

(Amd) **311.4.3 Landings at exterior doors.** There shall be a floor or landing a minimum of 3 feet in the direction of travel and 3 feet in width, or a width equal to the width of any adjacent stair, whichever is greater, on each side of each exterior door. The landing on the exterior side of doors shall not be more than 8 ¼ inches below the top of the threshold provided that the door, other than an exterior storm or screen door, does not swing over the landing. In the event that the door, other than an exterior storm or screen door, swings over the landing, the landing shall not be more than 1.5 inches below the top of the threshold.

**Exception:** At other than the required exit door, a landing is not required for the exterior side of the door where a stairway of three or fewer risers, including the top riser from the dwelling to the top tread, is located on the exterior side of a door.

(Amd) **R311.5.1 Width.** Stairways shall not be less than 36 inches in clear width at all points above the permitted handrail height and below the required headroom height. Handrails shall not project more than 4.5 inches on either side of the stairway and the minimum clear width of the stairway at and below the handrail height, including treads and landings, shall not be less than 31.5 inches where a handrail is installed on one side and 27 inches where handrails are provided on both sides.

**Exceptions:**

1. The width of spiral stairways shall be in accordance with Section R311.5.8.
2. The width of existing stairways serving existing unfinished attics or existing unfinished basements being converted to habitable space shall not be less than 32 inches in clear width at all points above the permitted handrail height and below the required headroom height. Handrails shall not project more than 4 inches on either side of the stairway and the minimum clear width of the stairway at and below the handrail height, including treads and landings, shall not be less than 28 inches where a handrail is installed on one side and 24 inches where handrails are provided on both sides.

(Amd) **R311.5.2 Headroom.** The minimum headroom in all parts of the stairway shall not be less than 6 feet 8 inches measured vertically from the sloped plane adjoining the tread nosing or from the floor surface of the landing or platform.

**Exception:** The minimum headroom in all parts of existing stairways serving existing unfinished attics or existing unfinished basements being converted to habitable space shall be 6 feet 6 inches, measured as above.

(Amd) **R311.5.3.1 Riser height.** The maximum riser height shall be 8 ¼ inches. The riser shall be measured vertically between leading edges of adjacent treads.

**Exception:** The maximum riser height of existing stairs serving existing unfinished attics or existing unfinished basements being converted to habitable space shall be 9 inches, measured as above.

The greatest riser height within any flight of stairs shall not exceed the smallest by more than 3/8 inch.

(Amd) **R311.5.3.2 Tread depth.** The minimum tread depth shall be 9 inches. The tread depth shall be measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's leading edge.

**Exception:** The minimum tread depth of existing stairs serving existing unfinished attics or existing unfinished basements being converted to habitable space shall be 8 inches, measured as above.

The greatest tread depth within any flight of stairs shall not exceed the smallest by more than 3/8 inch. Winder and circular stairway treads shall have a minimum tread depth of 9 inches measured as above at a point 12 inches from the sides where the treads are narrower. Winder treads shall have a minimum tread depth of 6 inches at any point. The greatest winder tread depth at the 12-inch walk line within any flight of stairs shall not exceed the smallest by more than 3/8 inch. The greatest circular tread depth at any walking line within any circular flight of stairs, measured at a consistent distance from a side of the stairway, shall not exceed the smallest by more than 3/8 inch.

(Amd) **R311.5.6.2 Continuity.** Handrails for stairways shall be continuous for the full length of each flight, from a point directly above the top riser of the flight to a point directly above the lowest riser of the flight. Handrail ends shall be returned to a wall or shall terminate in newel posts or safety terminations. Handrails adjacent to a wall shall have a space of not less than 1 1/2 inch between the wall and the handrails.

**Exceptions:**

1. Handrails shall be permitted to be interrupted by a newel post at a level landing.
2. The use of a volute, turnout, starting easing or starting newel shall be permitted over the lowest tread.

(Amd) **R313.1.1 Alterations and additions.** When alterations or additions requiring a permit occur, or when one or more sleeping rooms are added or created in existing dwellings, the entire dwelling shall be provided with smoke detectors located as required for new dwellings. The smoke detectors shall have a power source in accordance with Section R313.2.

**Exceptions:**

1. The smoke detectors may be battery operated and are not required to be interconnected when other remodeling considerations do not require the removal of the appropriate wall and ceiling coverings to facilitate concealed interconnected wiring.
2. Alterations to the exterior surfaces of dwellings including, but not limited to re-roofing, re-siding, window replacement and the construction of decks without roofs, are exempt from the requirements of this section.

(Amd) **R314.2.6 Interior trim.** Foam plastic trim defined as picture molds, chair rails, baseboards, handrails, ceiling beams, door trim and window trim may be installed, provided:

1. The minimum density is 20 pounds per cubic foot.
2. The maximum thickness of the trim is 0.5 inch and the maximum width is 8 inches.
3. The trim constitutes no more than 10 percent of the aggregate area of the walls and ceilings of any room or space.
4. The flame-spread rating does not exceed 75 when tested per ASTM E 84. The smoke-developed rating is not limited.

(Amd) **R319.3 Fasteners.** Fasteners and weight bearing connecting devices used for pressure preservative and fire-retardant-treated wood shall be of stainless steel, silicon bronze, copper, G185 galvanized steel, or shall be hot-dipped galvanized after fabrication.

(Del) **SECTION R322 – ACCESSIBILITY** Delete this section in its entirety without substitution.

## CHAPTER 4 – FOUNDATIONS

(Amd) **R403.1.8 Foundations on expansive soils.** Foundations and floor slabs for buildings and structures on expansive soils shall be designed in accordance with the provisions of the BOCA National Building Code/1996 portion of the 1999 State Building Code.

## CHAPTER 6 - WALL CONSTRUCTION

(Amd) **R602.3.1 Stud size, height and spacing.** The size, height and spacing of studs with a maximum laterally unsupported height of 10 feet shall be in accordance with Table R602.3(5). Studs with a laterally unsupported height exceeding 10 feet shall be justified by analysis.

**Exception:** Utility grade studs shall not be spaced more than 16 inches on center, shall not support more than a roof and a ceiling, and shall not exceed 8 feet in height for exterior walls and load-bearing walls or 10 feet for interior non-load-bearing walls.

(Del) **Table R602.3.1 – MAXIMUM ALLOWABLE LENGTH OF WOOD WALL STUDS EXPOSED TO WIND SPEEDS OF 100 MPH OR LESS IN SEISMIC DESIGN CATEGORIES A, B, C and D.** Delete without substitution.

(Amd) **R602.8.1 Materials.** Except as provided in Section R602.8, Item 4, fireblocking shall consist of 2-inch nominal lumber, or two thicknesses of 1-inch nominal lumber with broken lap joints, or one thickness of 23/32-inch wood structural panels with joints backed by 23/32-inch wood structural panels or one thickness of 3/4-inch particleboard with joints backed by 3/4-inch particleboard, or 1/2-inch gypsum board or 1/4-inch cement-based millboard. Minimum 16-inch vertical batts or blankets of mineral wool installed in such a manner as to be securely retained in place shall also be permitted as an acceptable fire block. Batts or blankets of mineral wool shall be permitted for compliance with the 10-foot horizontal fireblocking in walls constructed using parallel rows of studs or staggered studs.

(Del) **R602.8.1.1 Unfaced fiberglass.** Delete without substitution.

## CHAPTER 7 – WALL COVERING

(Add) **R703.11 Vinyl siding.** Vinyl siding shall be installed over a weather-protective barrier. Installation shall be in accordance with manufacturer's installation instructions.

## CHAPTER 8 – ROOF-CEILING ASSEMBLIES

(Amd) **R806.1 Ventilation required.** Enclosed attics and enclosed rafter spaces formed where ceilings are applied directly to the underside of roof rafters shall have cross ventilation for each separate space by ventilating openings protected against the entrance of rain or snow. Ventilating openings shall be provided with corrosion-resistant wire mesh, with 1/8-inch minimum to 1/4-inch maximum openings.

**Exception:** Rafter spaces filled completely with sprayed-in foam insulation complying with Section N1101.3.1.1 of this code.

## CHAPTER 9 – ROOF ASSEMBLIES

(Amd) **R905.2.6 Attachment.** Asphalt shingles shall have the minimum number of fasteners required by the manufacturer, or as required by Chapter 9. For normal application, asphalt shingles shall be secured to the roof with not less than four fasteners per strip shingle or two fasteners per individual shingle. Where the roof slope exceeds 20 units vertical in 12 units horizontal or where the basic wind speed per Appendix M is 110 mph or greater, asphalt shingles shall be secured to the roof in accordance with the manufacturer's special installation instructions or, in the absence of such instructions, with not less than six fasteners per strip shingle or three fasteners per individual shingle.

Shingles classified using ASTM D 3161 are acceptable for use in wind zones less than 110 mph. Shingles classified using ASTM D 3161 modified to use a wind speed of 110 mph are acceptable for use in all cases where special fastening is required.

## CHAPTER 11 – ENERGY EFFICIENCY

(Add) **N1101.3.1.1 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.

## CHAPTER 24 – FUEL GAS

(Amd) **G2402.3 Terms defined in other codes.** Where terms are not defined in this code and are defined in other portions of the 1999 State Building Code, such terms shall have the meanings ascribed to them as in those portions of the code.

(Amd) **G2412.2 Liquefied petroleum gas storage.** Storage facilities for liquefied petroleum gas shall be in accordance with regulations known as the Connecticut Liquefied Petroleum Gas and Liquefied Natural Gas Code adopted by the Commissioner of Public Safety under authority of section 29-331 of the Connecticut General Statutes.

(Amd) **G2423.1 General.** Service stations for CNG fuel shall be in accordance with regulations known as the Connecticut Gas Equipment and Piping Code adopted by the Commissioner of Public Safety under authority of section 29-329 of the Connecticut General Statutes.

## CHAPTER 26 – GENERAL PLUMBING REQUIREMENTS

(Add) **P2602.1.1 Individual sewage disposal systems and individual water supply systems.** Installations shall be approved in accordance with this code and the regulations enforced by the local health director in accordance with the Public Health Code of the State of Connecticut adopted pursuant to section 19a-36 of the Connecticut General Statutes.

(Del) **P2603.6.1 Sewer depth.** Delete without substitution.

## CHAPTER 31 – VENTS

(Amd) **P3103.1 Roof extension.** All open vent pipes that extend through a roof shall be terminated at least 12 inches above the roof, except that where a roof is to be used for any purpose other than weather protection, the vent extension shall be at least 7 feet above the roof.

(Del) **P3103.2 Frost closure.** Delete without substitution.

## CHAPTER 33 – GENERAL REQUIREMENTS

(Add) **E3301.2.1 Alternative compliance.** Compliance with the requirements of the 2002 National Electrical Code portion of the 1999 State Building Code shall be deemed to be alternative compliance to the requirements of Chapters 33 through 42 of this code.

## CHAPTER 41 – SWIMMING POOLS

(Amd) **E4109.3 Accessibility.** Hydromassage bathtub electrical equipment shall be accessible without damaging the building structure or building finish. Ground-fault circuit-interrupter devices shall be located in a readily accessible location for testing purposes. Ground-fault circuit-interrupter devices shall not be installed within the enclosure of the hydromassage tub.

## CHAPTER 43 – REFERENCED STANDARDS

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

Standard reference number	Title	Referenced in code section number
IECC—03	International Energy Conservation Code .....	Chapter 11
IMC—96	International Mechanical Code .....	R104.11, M2106.1, G2402.3
IPC—97	International Plumbing Code .....	R104.11, G2402.3
SBCCI SSTD 10-99	Standard for Hurricane Resistant Construction .....	R301.2.1.1

(Amd) **NFPA** National Fire Protection Association  
Batterymarch Park  
Quincy, MA 02269

Standard reference number	Title	Referenced in code section number
13—02	Installation of Sprinkler Systems .....	R317.1
13D-02	Installation of Sprinkler Systems in One- and Two-family Dwellings and Manufactured Homes .....	R317.1
13R—02	Installation of Sprinkler Systems in Residential Occupancies Up to and Including Four Stories in Height .....	R317.1
31—92	Installation of Oil-burning Equipment .....	M1401.1.1, M1801.3.1, M1805.3
58—95	Liquefied Petroleum Gas Code .....	G2412.2, G2414.6.2
70—02	National Electrical Code .....	E3301.1, E3301.2, E4201.1, Table E4203.2, E4204.3, E4204.4
72—02	National Fire Alarm Code .....	R313.1
85—01	Boiler and Construction Systems Hazards Code .....	G2452.1
259-98	Standard Test Method for Potential Heat of Building Materials .....	R314.2.5
286—00	Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth .....	R314.3, R315.4
501—03	Standard on Manufactured Housing .....	R202
853—00	Standard for the Installation of Stationary Fuel Cell Power Plants .....	M1903.1

## APPENDIX E - MANUFACTURED HOUSING USED AS DWELLINGS

(Amd) **AE101.1 General.** The provisions of Appendix E shall be applicable only to a manufactured home used as a single dwelling unit and shall apply to the following:

1. Construction, alteration and repair of any foundation system which is necessary to provide for the installation of a manufactured home unit.
2. Construction, installation, addition, alteration, repair or maintenance of the building service equipment which is necessary for connecting manufactured homes to water, fuel or power supplies and sewage systems.

3. Alterations, additions or repairs to existing manufactured homes. The construction, alteration, moving, demolition, repair and use of accessory buildings and structures and their building service equipment shall comply with the requirements of the State Building Code.

These provisions shall not be applicable to the design and construction of manufactured homes and shall not be deemed to authorize either modifications or additions to manufactured homes where otherwise prohibited.

**Exception:** In addition to these provisions, new and replacement manufactured homes to be located in flood hazard areas as determined locally shall meet the applicable requirements of Section R323 of this code.

(Del) **APPENDIX F – RADON CONTROL METHODS.** Delete Appendix F without substitution.

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

(Amd) **AG105.2 Outdoor swimming pool.** An outdoor swimming pool, including in-ground, above-ground or on-ground pools, hot tubs and spas shall be provided with a barrier which shall comply with the following:

1. The top of the barrier shall be at least 48 inches above grade measured on the side of the barrier that faces away from the swimming pool. The maximum vertical clearance between grade and the bottom of the barrier shall be 2 inches measured on the side of the barrier which faces away from the swimming pool. Where the top of the pool structure is above grade, such as an above-ground pool, the barrier may be at ground level, such as the pool structure, or mounted on top of the pool structure. Where the barrier is mounted on top of the pool structure, the maximum vertical clearance between the top of the pool structure and the bottom of the barrier shall be 4 inches.
2. Openings in the barrier shall not allow passage of a 4-inch diameter sphere.
3. Solid barriers that do not have openings, such as masonry or stone walls, shall not contain indentations or protrusions except for normal construction tolerances and tooled masonry joints.
4. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is less than 45 inches, the horizontal members shall be located on the swimming pool side of the barrier. Spacing between vertical members shall not exceed 1 ¾ inches in width. Where there are decorative cutouts within vertical or horizontal members, spacing within the cutouts shall not exceed 1 ¾ inches in width.
5. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is 45 inches or more, spacing between vertical members shall not allow passage of a 4-inch diameter sphere. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1 ¾ inches in width.
6. Maximum mesh size for chain link fences shall be 2 ¼ inches square unless the fence is provided with slats fastened at the top or the bottom which reduce the openings to not more than 1 ¾ inches.
7. Where the barrier is composed of diagonal members, such as a lattice fence, the maximum opening formed by the diagonal members shall not be more than 1 ¾ inches.
8. Access gates shall comply with the requirements of Section AG105.2, Items 1 through 7, and shall be equipped to accommodate a locking device. Pedestrian access gates shall open outward away from the pool and shall be self-closing and have a self-latching device. Gates other than pedestrian access gates shall have a self-latching device. Where the release mechanism of the self-latching device is located less than 54 inches from the bottom of the gate, the release mechanism and surrounding openings shall comply with the following: The release mechanism shall be located on the pool side of

the gate at least 3 inches below the top of the gate and the gate and barrier shall have no opening greater than ½ inch within 18 inches of the release mechanism.

9. Where a wall of a dwelling serves as part of the pool barrier, one of the following conditions shall be met:
  - 9.1. The pool shall be equipped with a power safety cover in compliance with ASTM F1346-91; or
  - 9.2. All doors with direct access to the pool through that wall shall be equipped with an alarm which produces an audible warning when the door and its screen, if present, are opened. The alarm shall sound continuously for a minimum of 30 seconds within 7 seconds after the door and its screen, if present, are opened and be capable of being heard throughout the house during normal activities. The alarm shall automatically reset under all conditions. The alarm shall be equipped with a manual means, such as a touchpad or switch, to temporarily deactivate the alarm for a single opening. Such deactivation shall last for not more than 15 seconds. The deactivation device(s) shall be located at least 54 inches above the threshold of the door; or
  - 9.3. All doors with direct access to the pool through that wall shall be equipped with a self-closing and self-latching device with the release mechanism located a minimum of 54 inches above the door threshold. Swinging doors shall open away from the pool area.
10. Where an above-ground or on-ground pool structure is used as a barrier or where the barrier is mounted on top of the pool structure, and the means of access is a ladder or steps, then the ladder or steps shall be surrounded by a barrier which meets the requirements of section AG105.2, Items 1 through 9.

(Add) **AG105.6 Temporary enclosure.** A temporary enclosure shall be installed prior to the commencement of the installation of any in-ground swimming pool unless the permanent barrier specified in Section AG105.2 is in place prior to the commencement of the installation. The temporary enclosure shall be a minimum of 4 feet in height, shall have no openings that will allow passage of a 4-inch sphere and shall be equipped with a positive latching device on any openings.

(Add) **AG105.7 Pool alarm.** No building permit shall be issued for the construction or substantial alteration of a swimming pool at a residence occupied by, or being built for, one or more families unless a pool alarm is installed with the swimming pool. As used in this section, "pool alarm" means a device which emits a sound of at least 50 decibels when a person or an object weighing 15 pounds or more enters the water in a swimming pool.

**Exception:** Hot tubs and portable spas shall be exempt from this requirement.

(Amd) **AG108.1 General.**

## ANSI/NSPI

ANSI/NSPI-3-99 Standard for Permanently Installed Residential Spa .....	AG104.1
ANSI/NSPI-4-99 Standard for Above-ground/On-ground Residential Swimming Pools ..	AG103.2
ANSI/NSPI-5-03 Standard for Residential In-ground Swimming Pools.....	AG103.1
ANSI/NSPI-6-99 Standard for Residential Portable Spas .....	AG104.2
ANSI/ASME A112.19.8M-1987 (R1996) Suction Fittings for Use in Swimming Pools, Wading Pools, Spas, Hot Tub and Whirlpool Bathing Appliances .....	AG106.2

**ASTM**

ASTM F 1346-91 (2003) Performance Specification for Safety Covers and Labeling Requirements for All Covers for Swimming Pools, Spas and Hot Tubs..... AG105.2, AG105.5

**ASME**

ASME A112.19.17 Manufacturers Safety Vacuum Release Systems (SVRS) for Residential and Commercial Swimming Pool, Spa, Hot Tub and Wading Pool.....AG106.3

(Del) **APPENDIX I – PRIVATE SEWAGE DISPOSAL.** Delete Appendix I without substitution.

(Del) **APPENDIX J – EXISTING BUILDINGS AND STRUCTURES.** Delete Appendix J without substitution.



## (Add) APPENDIX M – BASIC WIND SPEED

Municipality	Basic Wind Speed (3 sec. gust)	Municipality	Basic Wind Speed (3 sec. Gust)	Municipality	Basic Wind Speed (3 sec. gust)
Andover	105	East Lyme	120	New Britain	100
Ansonia	110	Easton	105	New Canaan	105
Ashford	105	East Windsor	95	New Fairfield	95
Avon	95	Ellington	95	New Hartford	95
Barkhamsted	95	Enfield	95	New Haven	110
Beacon Falls	105	Essex	115	Newington	100
Berlin	105	Fairfield	115	New London	120
Bethany	105	Farmington	95	New Milford	95
Bethel	100	Franklin	110	Newtown	100
Bethlehem	95	Glastonbury	105	Norfolk	90
Bloomfield	95	Goshen	90	North Branford	110
Bolton	100	Granby	95	North Canaan	90
Bozrah	110	Greenwich	105	North Haven	110
Branford	115	Griswold	110	North Stonington	120
Bridgeport	110	Groton	120	Norwalk	110
Bridgewater	95	Guilford	115	Norwich	115
Bristol	95	Haddam	110	Old Lyme	120
Brookfield	95	Hamden	110	Old Saybrook	115
Brooklyn	105	Hampton	105	Orange	110
Burlington	95	Hartford	100	Oxford	100
Canaan	90	Hartland	90	Plainfield	110
Canterbury	110	Harwinton	95	Plainville	100
Canton	95	Hebron	105	Plymouth	95
Chaplin	105	Kent	90	Pomfret	105
Cheshire	105	Killingly	105	Portland	105
Chester	115	Killingworth	115	Preston	115
Clinton	115	Lebanon	110	Prospect	100
Colchester	110	Ledyard	120	Putnam	105
Colebrook	90	Lisbon	110	Redding	100
Columbia	105	Litchfield	95	Ridgefield	100
Cornwall	90	Lyme	115	Rocky Hill	100
Coventry	105	Madison	115	Roxbury	95
Cromwell	105	Manchester	100	Salem	115
Danbury	95	Mansfield	105	Salisbury	90
Darien	110	Marlborough	105	Scotland	105
Deep River	115	Meriden	105	Seymour	105
Derby	110	Middlebury	100	Sharon	90
Durham	110	Middlefield	105	Shelton	110
Eastford	100	Middletown	105	Sherman	95
East Granby	95	Milford	110	Simsbury	95
East Haddam	110	Monroe	105	Somers	95
East Hampton	105	Montville	115	Southbury	100
East Hartford	100	Morris	95	Southington	100
East Haven	110	Naugatuck	100	South Windsor	95

Municipality	Basic Wind Speed (3 sec. Gust)
Sprague	110
Stafford	100
Stamford	105
Sterling	110
Stonington	120
Stratford	110
Suffield	95
Thomaston	95
Thompson	100
Tolland	100
Torrington	90
Trumbull	110
Union	100
Vernon	100
Voluntown	110
Wallingford	110
Warren	90
Washington	95
Waterbury	100
Waterford	120
Watertown	95
Westbrook	115
West Hartford	100
West Haven	110
Weston	105
Westport	110
Wethersfield	100
Willington	100
Wilton	105
Winchester	90
Windham	105
Windsor	95
Windsor Locks	95
Wolcott	100
Woodbridge	110
Woodbury	95
Woodstock	100

(Del) **AMENDMENTS TO THE 1995 MODEL ENERGY CODE.** Delete the amendments to the 1995 Model Energy Code in their entirety and replace with the amendments to the 2003 International Energy Conservation Code:

## **AMENDMENTS TO THE 2003 INTERNATIONAL ENERGY CONSERVATION CODE**

### **CHAPTER 1 – ADMINISTRATION**

(Amd) **101.1 Title.** These regulations shall be known as the 2003 International Energy Conservation Code portion of the 1999 State Building Code, hereinafter referred to as "the code" or "this code."

(Amd) **101.2 Scope.** This code establishes minimum prescriptive and performance-related regulations for the design of energy-efficient buildings and structures or portions thereof that provide facilities or shelter for public assembly, educational, business, mercantile, institutional, storage and residential occupancies, as well as those portions of factory and industrial occupancies designed primarily for human occupancy. This code thereby addresses the design of energy-efficient building envelopes and the selection and installation of energy-efficient mechanical, service water-heating, electrical distribution and illumination systems and equipment for the effective use of energy in these buildings and structures.

(Amd) **104.1 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 under the provisions of Chapter 4 shall be prepared by a registered design professional when required by the provisions of chapter 390 or 391 of the Connecticut General Statutes.

**Exception:** The building official is authorized to 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 if it is found 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.

### **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 1999 State Building Code, such terms shall have the meanings ascribed to them as in those codes.

#### **SECTION 202 – GENERAL DEFINITIONS.** Add or amend 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. Also known as the local building official or code 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 ADDITION.** A one-story structure, enclosing a nonhabitable space, with glazing in excess of 50 percent of the gross area of the exterior walls and roof.

(Amd) **SUNROOM ADDITION.** A one-story structure, enclosing a habitable space, with glazing in excess of 40 percent 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 percent of the area of the sunroom floor.

## **CHAPTER 5 – RESIDENTIAL BUILDING DESIGN BY COMPONENT PERFORMANCE APPROACH**

(Add) **502.2.5.1 Prescriptive requirements for residential greenhouse and sunroom additions.** Unconditioned greenhouse and sunroom additions 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 greenhouse and sunroom additions shall meet the prescriptive envelope criteria in Table 502.2.5.1. 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 502.2.5.1.

Greenhouse additions 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.

Sunroom additions that are free-standing 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. Sunroom additions 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 502.2.5.1. Prescriptive envelope component criteria for residential greenhouse and sunroom additions.**

Minimum opaque ceiling R-value	R-19
Minimum floor over unheated space R-value	R-19
Minimum opaque wall R-value	R-11
Minimum slab-on-grade perimeter insulation R-value	R-5
Minimum slab-on-grade perimeter insulation depth	2 feet

## **CHAPTER 6 – SIMPLIFIED PRESCRIPTIVE REQUIREMENTS FOR DETACHED ONE- AND TWO-FAMILY DWELLINGS AND GROUP R-2, R-4 OR TOWNHOUSE RESIDENTIAL BUILDINGS**

(Add) **601.3.1.1 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.

## **CHAPTER 8 – DESIGN BY ACCEPTABLE PRACTICE FOR COMMERCIAL BUILDINGS**

(Add) **803.2.8.2 Duct insulation values.** Minimum duct insulation values stated in Section 803.2.8 shall be installed R-values.

(Add) **805.6.1 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 3500 initial lamp lumens or less.
2. Luminaires intended to illuminate the façade of buildings or to illuminate other objects including but not limited to flagpoles, specimen trees, statuary and works of art.
3. Luminaires for historic lighting.
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 2002 National Electrical Code.

**CHAPTER 10 – REFERENCED STANDARDS**

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

Standard reference number	Title	Referenced in code section number
IMC—96	International Mechanical Code	..... 201.3, 202, 503.3.3.4, 503.3.3.4.1, 503.3.3.4.2, 803.2.5, 803.2.6, 803.2.8.1, 803.2.8.1.1, 803.2.8.1.2, 803.3.4, 803.3.8.1
IPC—97	International Plumbing Code	..... 201.3

(Del) **AMENDMENTS TO THE 1999 NATIONAL ELECTRICAL CODE (NFPA – 70 – 1999).** Delete the amendments to the 1999 National Electrical Code in their entirety and replace with the amendments to the 2002 National Electrical Code (NFPA – 70 – 2002):

**AMENDMENTS TO THE 2002 NATIONAL ELECTRICAL CODE (NFPA - 70 - 2002)**

(Del) **ARTICLE 80 – ADMINISTRATION AND ENFORCEMENT.** Delete this article in its entirety and replace with the following: The administration of this code shall be in accordance with the provisions of Chapter 1 of the BOCA National Building Code/1996 portion of the 1999 State Building Code as amended.

(Amd) **ARTICLE 90 – INTRODUCTION**

(Amd) **90.2 Scope.**

**(A) Covered.** This Code covers the installation of electric conductors, electric equipment, signaling and communications conductors and equipment, and fiber optic cables and raceways for the following:

(1) Public and private premises, including:

- a. buildings and structures;
- b. installations in 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 shall be in accordance with the requirements of this code or with the requirements of the 2003 International Residential Code portion of the 1999 State Building Code;
- c. utility connections, additions and alterations to mobile homes;
- d. utility connections to recreational vehicles; and
- e. floating buildings.

(2) Yards, lots, parking lots, carnivals, and industrial substations

(3) Installations of conductors and equipment that connect to the supply of electricity

(4) Installations used by the electric utility, such as office buildings, warehouses, garages, machine shops and recreational buildings, that are not an integral part of a generating plant, substation, or control center.

**(B) Not Covered.** This code does not cover the following:

(1) Installations in ships, watercraft other than floating buildings, railway rolling stock, aircraft, or automotive vehicles other than mobile homes and recreational vehicles

(2) Installations under ground in mines and self-propelled mobile surface mining machinery and its attendant electrical trailing cable

(3) Installations of railways for generation, transformation, transmission, or distribution of power used exclusively for operation of rolling stock or installations used exclusively for signaling and communications purposes

(4) Installations of communications equipment under the exclusive control of communications utilities located outdoors or in building spaces used exclusively for such installations

(5) Installations under the exclusive control of an electric utility where such installations

- a. Consist of service drops or service laterals, and associated metering, or
- b. Are located in legally established easements, rights-of-way, or by other agreements either designated by or recognized by public service commissions, utility commissions or other regulatory agencies having jurisdiction for such installations, or
- c. Are on property owned or leased by the electric utility for the purpose of communications, metering, generation, control, transformation, transmission, or distribution of electric energy.