

2026 Connecticut State Building Code

Summary of changes in response to December 16, 2025, Legislative Commissioners' Office memorandum.

Substantive Concerns:

1. [On page 67 and 105] In Section 2701.2 of the IBC and Section 903.5 of the IEBC, Language was changed to reflect the language in the statute. Note that, as written, section 16-330f of the Connecticut General Statutes does not align with the code as there is no definition of "commercial" within the code
2. [On page 112] In definition of "public swimming pool," statute reference was changed and the terms "pool" and "residential [swimming] pool" have been italicized as defined terms in the code.
3. [On page 129] In section C402.1.1.1, item 3, refers to the non-purchased production of the energy and not the purchase and installation of the components, such as, solar panels.

Additional Comments:

Capitalization

Changes were made as indicated, except in the following instances:

Page 136, article 90.4 (D), "Code" is not made lower-case for consistency with the underlying model code.

Formatting issues

Changes were made as indicated, except in the following instances:

Page 24, section 307.5.2, the indentation was maintained to provide clarification that the NFPA references are associated with Section 307.5.2 and for consistency with the underlying model code.

Page 29, section 407.14.1.6; Page 30, section 407.14.1.10: the term "readily accessible" was not italicized because the use of the word in this instance is to describe access to a specific piece of equipment.

Page 136, section 90.4, the word "Code" was not made lowercase for consistency with the underlying model code.

Page 194 and page 195, several sections, the term "vent pipe" was not italicized as it is not defined under the IRC portion of the code.

Additional technical corrections

Changes were made as indicated except in the following instances:

Page 5, Section 104.2 was not changed as the current language matches model code.

Page 6, Section 104.2.4.3; Page 120, section 102.6; "property" was not changed to "structure" as "property" is the term used in the statute although "structure" would be a more appropriate term.

Page 10, section 105.3.3 changing to "owner's authorized agent" instead of "agent of the owner" to align with statutes.

Page 11, section 105.5.1, did not change regulation to Connecticut State Building Code for consistency with the statutes.

Page 11, section 107.2.2.1, "shop drawings" was changed to "working shop drawings" for consistency with the Connecticut State Fire Safety Code and to bridge the divide between statutory language (working drawings) and industry and model code language (shop drawings).

Page 13, section 107.7, instead of adding the word "and," "or" was added to align with statute and because any one of the 9 items would be applicable.

Page 14, section 110.1.2, referenced section was corrected. Kept the phrase "shall be" for consistency with the underlying model code.

Page 14, section 110.6.1, LRRC recommended adding "section" after Code, however, "year" was added instead as was the intent. The section number is referenced later in the sentence.

Page 15, section 111.1, did not add "or alteration" and instead added "all buildings or alterations of existing buildings for which a permit is required" for consistency with the statutes.

Page 21, Dwelling, Three-Family (Triplex) and Dwelling; Four-family (Quadruplex); definition reformatted and revised for clarity and consistency with the Connecticut State Fire Safety Code.

Page 24, section 305.2.3 and section 305.2.4, changes made and have also been updated to match comments made to sections 308.5.4 and 308.5.5 for consistency.

Page 34, section 903.2.8.3, current wording is consistent with the underlying model code. Changing the number of residents was not changed since an R-4 care facility could have 8 or less residents, however once they go over 8 they would be required to be designed for adequate water supply similar to a two-family home to support the additional occupants.

Page 39, section 915.7, language was changed to direct you to the IEBC portion for the definition as similarly used in other sections of the codes for clarity and consistency with the Connecticut State Fire Safety Code.

Page 47, section 1019.3 some of the suggested changes were made but some were not incorporated consistency with the underlying model code.

Page 48, section 1030.2, changed for consistency with statutory language.

Page 67, section 2701.2; Page 105, section 903.5; language was changed for consistency with the statutes. As written, section 16-330f of the Connecticut General Statutes does not align with the code as there is no definition of "commercial" within the code.

Page 98, section 306.7.8, changed limited application to limited-access for consistency with statute.

Page 100, section 502.4; Page 102, section 503.4; Page 105, section 805.3; kept the phrase "in effect at the time" since the date of application establishes the code requirements based on the code in effect on that date, however we have added "of permit application" for clarity.

Page 103, section 802.2.1, did not change item 3.1 for consistency with the underlying model code.

Page 103, section 804.2 did not change for consistency with the underlying model code.

Page 109, section 101.2.1, changes made for consistency on how other referenced model codes write this section.

Page 110, section 105.2.1, did not add “or alteration” but for consistency with statute have added “all buildings or alterations of existing buildings for which a permit is required.”.

Page 110, section 106.2, was not changed for consistency with the statute.

Page 111, section 115.4, kept current wording since the term shall is enforceable in the model code.

Page 112, section 305.4, did not change to “A water service pipe,” as many buildings and structures could have more than one water service. However, we have added the word “Exterior” for clarity.

Page 116, section 708.1.1, did not change for consistency with the underlying model code.

Page 122, Limited-Combustible Material, “comply with the requirements” was changed to “is not defined as” for consistency with the underlying model code.

Page 124, section 505.4, “complying” was changed to “in accordance” for consistency with the underlying model code.

Page 124, section 506.3.2.5, the word performing not changed for consistency with the underlying model code.

Page 127, section C104.1.1, the word “considered” was not added because it changes the intent of the code. “Shall be met” is model code language and the intention is that even when designing to an energy efficiency program, the requirements of that table in the IECC are still mandatory so that the energy efficiency program does not unintentionally weaken the state’s Energy Code.

Page 132, Attached Dwelling Unit, revised definition to align with R302.3.1 of the IRC for clarity and consistency across model code books.

Page 138, section 210.52, “to be considered” is not changed for consistency with the underlying model code.

Page 140, section 440.14, did not modify for consistency with the underlying model code.

Page 149, section 305.6, or natural topography was not added as it is addressed in section 305.7.

Page 154, section R101.4.1, did not add suggested reference to CSFSC and CSFPC because these codes do not apply to one- and two-family homes, however, section was edited to align with the language found in the IBC portion for consistency.

Page 155, section R104.2, shall have the authority was maintained for consistency with the underlying model code.

Page 157, section R105.1.2, “the” was not added in front of permit for consistency with the underlying model code.

Page 168, section R301.2.1.4.3, “building height” is a defined term and is being used instead of “height of the building”.

Page 173, section R311.2.1 and section R311.2.2, fuel-fired is consistent with the underlying model code.

Page 174, section R317.6.1; Page 182, Table R602.7(1); the word “to” and “inclusive” was not included in the amendments for consistency with the underlying model code.

Page 176, section R318.7.6, the words “existing unfinished” was not added in front of basements since the section is addressing basements which could include non-habitable finished basements that are being converted to habitable space.

Page 177, R319.5, revised to say replacement windows to align with section title.

Page 185, “need not be limited to” is not consistent with underlying model code and instead they use “not limited to” which we have revised in this revision of the submission for consistency.

Seek clarification

Changes were made for clarification as indicated except in the following instances:

Page 6, section 104.2.4.3; Page 109, section 102.6; Page 120, section 102.6; Page 145, section 102.5; Page 156, section R104.2.3.3: “property” was not changed to “structure” as “property” is the term used in the statute although “structure” would be a more appropriate term.

Page 14, section 110.1.2, referenced section was corrected. The phrase “shall be” was kept for consistency with the underlying model code.

Page 21, FOSTER CARE FACILITIES, reference made to Chapter 319a of the C.G.S, however “related or unrelated” not added as this is not consistent with the underlying model code.

Page 31, section 428.1, since this section already references the International Fire Code and other sections of the code reference the Fire Prevention code, this section has been deleted. The rest of the text is model code language and thus an amendment is no longer needed.

Page 76, Reference to the 2022 edition of the Connecticut Fire Safety Code Part IV is the correct reference for use of NFPA 101-2021 edition.

Page 77, section S101.3 item 4, item 5 was missing from this document which is part of the missing text. This has been corrected.

Page 85, section S104.3.1 was corrected to be similar to S104.2.1

Page 100, section 502.4; Page 102, section 503.4; Page 105, section 805.3; Page 108, section 1103.2; kept the phrase “in effect at the time” since the date of application establishes the code requirements based on the code in effect on that date, however we have added “of permit application” for clarity.

Page 104, section 804.13.1, handrails are judged by the building inspector, design professional or contractor. This is consistent with the underlying model code language.

Page 105, section 905.3, language was changed for consistency with statute. Note that, as written, section 16-330f of the Connecticut General Statutes does not align with the code as there is no definition of "commercial" within the code.

Page 110, section 105.2.1, language was updated for consistency with statute which includes alterations.

Page 110, section 105.5; Page 120, section 105.4: the word filing was not changed to "date of the application" because many still accept paper applications and the date on the application may not be the date it is submitted to the building department.

Page 113, section 312.6, reference to Section 107 was corrected accordingly.

Page 120, section 105.1, this section and subsections are consistent with statute and the referenced codes. We have added the suggested words where applicable.

Page 130, section C405.12.1, wording in item 4 is from the model code, however, agree that it does not make sense. We have removed this item and added it to main body of the section to state that "Automatic receptacle controls, except for plug in devices, shall comply with the following:" We have also not removed the abbreviation "(UPS)" since it is an industry recognized acronym and some may not know the proper name.

Page 141, section 700.3; Page 142, section 701.3; Page 142, section 708.6; Page 143, section 708.6: Previous subsections of this section reference the authority having jurisdiction, typically the BO. This is clear when read in context with the rest of the section.

Page 147, Public Swimming Pool, "one- family" was added for consistency. For informational purposes, the Department of Public Health does not consider two-family pools to be public.

Page 156, section R104.2.3.1.2, Becomes part of the permit records within the building department. This subsection is part of the larger heading "R104 Duties and Powers of the Building Official."

Page 161, section R110.1, language was updated for consistency with statute which includes alterations.

Page 161, section R110.1.2, would apply in the event someone wants to build a large mansion.

Page 165, section R301.2.1, did not relocate section after table and figure deletions. The formatting of the pages would provide a lot of white space. These amendments will end up getting incorporated into the model code as a full Connecticut-amended book so the order and flow will be more fluid once merged with the entire book.

Page 167, section R301.2.1.1 and R301.2.1.3, wind speeds are calculated by the online tool that is referenced within the amendments and Connecticut does not fall within a wind design region.

Page 167, Figure R301.2.1, this amendment should have been deleted as we are keeping the model code figures instead. We have removed it from the revised submission.

Page 169, section R302.3.6.2, the word gage is correct as it is measuring the thickness. Gauge is used to measure pressure.

Page 180, section R329.6.2, the percentage was changed to 17 to be consistent within the codes.

Page 186, section N1103.6, a section reference was added (403 of the IMC)

LCO Note: Throughout the proposed code, defined terms are frequently, but not always, italicized. Each defined term appearing in the proposed code should be italicized, for consistency. We did point some instances of where terms should be italicized in the attached pages, but the agency should incorporate any that we missed into the proposed code.

OSBI response: We have reviewed the document and have italicized the applicable words. Note that each book has their own respective lists of definitions and therefore some words that are italicized in one book are not italicized in another book, such as “structure”, due to the fact that it is not included within that book’s definitions. We amend Section 201.3 in the IBC, for example, to say: “Terms defined in other codes. Where terms are not defined in this code and are defined in other codes adopted as portions of the 2022 Connecticut State Building Code, such terms shall have the meanings ascribed to them as in those codes.”

2026 Connecticut State Building Code

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Commissioner

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State Building Inspector

Draft for
Legislative Regulation
Review Committee
January 15, 2026



CONNECTICUT
Administrative Services



2026 CONNECTICUT STATE BUILDING CODE

For Legislative Regulation Review Committee Review

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For Legislative Regulation Review Committee Review

TABLE OF CONTENTS

2026 CONNECTICUT STATE BUILDING CODE

| | |
|---|-----|
| Introduction..... | 1 |
| Amendments To The 2024 International Building Code..... | 3 |
| Amendments To 2017 ICC A117.1 Accessible And Usable Buildings And Facilities with Supplement 1 | 93 |
| Amendments To The 2024 International Existing Building Code | 95 |
| Amendments To The 2024 International Plumbing Code | 111 |
| Amendments To The 2024 International Mechanical Code | 121 |
| Amendments To The 2024 International Energy Conservation Code..... | 131 |
| Amendments To The 2023 NFPA 70, National Electrical Code..... | 139 |
| Amendments To The 2024 International Swimming Pool And Spa Code..... | 149 |
| Amendments To The 2024 International Residential Code..... | 157 |

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INTRODUCTION

Adopted and Referenced Publications

Pursuant to section 29-252 of the Connecticut General Statutes the following national model codes, as amended herein, are adopted and shall be known as the 2026 Connecticut State Building Code:

- 2024 International Building Code (First Printing with format updates: April 2025)
- 2017 ICC A117.1 Accessible and Usable Buildings and Facilities with Supplement 1 (Fifth Printing: Dec 2023)
- 2024 International Existing Building Code (First Printing with format updates: Oct 2024)
- 2024 International Plumbing Code (First Printing: June 2023)
- 2024 International Mechanical Code (Second Printing: Oct 2025)
- 2024 International Energy Conservation Code (First Printing with updates: Sept 2025)
- 2023 NFPA 70, National Electrical Code
- 2024 International Swimming Pool and Spa Code (First Printing with format updates: Oct 2024)
- 2024 International Residential Code (First Printing with updates: Sept 2025)

Copies of the International Codes may be obtained from the International Code Council, Inc., 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795 (website: www.iccsafe.org).

Copies of the 2023 NFPA 70, National Electrical Code, may be obtained from the National Fire Protection Association, Inc., 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02169-7471 (website: www.nfpa.org).

Copies of the 2026 Connecticut State Building Code document may be downloaded from the website: www.portal.ct.gov/DAS.

The requirements of the 2026 Connecticut State Building Code shall apply to all work for which a *permit* application was made on or after the date of adoption.

As used in this document, these annotations have the following meaning:

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

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

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

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AMENDMENTS TO THE 2024 INTERNATIONAL BUILDING CODE

CHAPTER 1 – SCOPE AND ADMINISTRATION

(Amd) **101.1 Title.** The 2024 *International Building Code* as amended in this section shall be known as the 2024 *International Building Code* portion of the 2026 Connecticut State Building Code. References to the *International Building Code* or *Connecticut State Building Code* within the body of the model documents shall be considered to be references to the 2024 *International Building Code* portion of the 2026 Connecticut State Building Code.

(Add) **101.1.1 Statutes.** Pursuant to sections 29-252a and 29-253 of the Connecticut General Statutes, respectively, this code shall be the building code for all towns, cities and boroughs and all state agencies.

(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*.

Exception: 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* not more than three *stories above grade plane* in height, shall comply with the *International Residential Code* portion of the Connecticut State Building Code.

(Amd) **101.2.1 Appendices.** The provisions of Appendices C, H, I and S shall be incorporated into the requirements of this code.

Appendix C – Group U - Agricultural buildings

Appendix H – Signs

Appendix I – Patio covers

Appendix S – Triplex and quadruplex provisions

(Amd) **101.4.1 Gas.** The *International Fuel Gas Code* is not adopted by the state of Connecticut. Any references to the *International Fuel Gas Code* within the body of this code shall be considered references to the requirements of NFPA 2, *Hydrogen Technologies Code*; NFPA 54, *National Fuel Gas Code*; and NFPA 58, *Liquefied Petroleum Gas Code*, as adopted in the Connecticut State Fire Safety Code and the Connecticut State Fire Prevention Code. These requirements apply to liquid petroleum storage systems, gas piping systems extending from the point of delivery to the inlet connections of appliances, the installation and operation of residential and commercial gas appliances, and related accessories as covered by this code.

(Amd) **101.4.3 Plumbing.** The provisions of the *International Plumbing Code* shall apply to the installation, *alterations*, *repairs* and replacement of plumbing systems (including equipment, appliances, fixtures, fittings and appurtenances) where such systems are connected to a water or sewage system and to all aspects of a medical gas system. The *International Private Sewage Disposal Code* is not adopted by the state of Connecticut. Any reference to the *International Private Sewage Disposal Code* within the body of this code shall be deemed a reference to the regulations adopted pursuant to section 19a-36 of the Connecticut General Statutes, known as the Public Health Code.

(Amd) **101.4.4 Property maintenance.** The *International Property Maintenance Code* is not adopted by the state of Connecticut. Property maintenance shall be in accordance with the requirements of this code and the applicable provisions of the Connecticut State Fire Safety Code and the Connecticut State Fire Prevention Code. All references to the *International Property Maintenance Code* found within the body of the model document shall be considered null and void.

(Add) **101.4.5.1 Connecticut State Fire Safety Code.** References to the *International Fire Code* within the body of the model documents shall be considered references to the Connecticut State Fire Safety Code.

(Add) **101.4.8 Electrical.** The provisions of the NFPA 70, *National Electrical Code* portion of the Connecticut State Building Code, shall apply to the installation of electrical systems, including *alterations, repairs, replacement, equipment, appliances, fixtures, fittings and appurtenances thereto*.

(Add) **101.4.9 Oil-burning equipment, piping and storage.** In addition to the requirements of this code, the installation of oil burners, equipment, and appliances used in conjunction therewith, including tanks, piping, pumps, control devices and accessories, shall comply with NFPA 31, *Standard for the Installation of Oil-Burning Equipment*, as adopted in the Connecticut State Fire Safety Code and the Connecticut State Fire Prevention Code.

(Amd) **102.6 Existing structures.** The legal use and occupancy of any *building or structure* existing on the date of adoption of this code shall be permitted to continue without change, except as otherwise specifically provided in this code, the *International Existing Building Code* portion of the Connecticut State Building Code or the Connecticut State Fire Safety Code.

(Amd) **102.6.1 Buildings not previously occupied.** A *building* or portion of a *building* that has not been previously occupied or used for its intended purpose in accordance with the laws in existence at the time of its completion shall be permitted to comply with the provisions of the laws in existence at the time of its original *permit* unless such *permit* has expired. Subsequent *permits* shall comply with the *International Building Code* or *International Residential Code* portion of the Connecticut State Building Code, as applicable, for new construction.

(Amd) **102.6.2 Buildings previously occupied.** The legal use and occupancy of any *building* existing on the date of adoption of this code shall be permitted to continue without change, except as specifically provided in this code or the Connecticut State Fire Safety Code.

(Add) **102.6.3 Demolition of structures.** The demolition of structures shall be regulated in accordance with the provisions of Section 3303 of this code.

(Del) **SECTION 103 CODE COMPLIANCE AGENCY.** Delete Section 103 in its entirety and replace with the following:

(Add) **SECTION 103 ENFORCEMENT AGENCY**

(Add) **103.1 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) **103.2 Appointment.** Pursuant to section 29-260 of the Connecticut General Statutes, 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* and referred to in this code as the *building official*, local *building official* or code official.

(Add) **103.3 Employees.** In accordance with the prescribed procedures and regulations of the town, city or borough, and with the concurrence of the chief executive officer, 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) **103.4 Restriction of employees.** An official or employee connected with the agency created to enforce the provisions of this code pursuant to Section 103.1, except one whose only connection with it is that of a member of the board of appeals established under the provisions of Section 113, 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* therefor, unless that person is the *owner* of the *building*. Such official or employee shall not engage in any work that conflicts with official duties or with the interests of the agency.

(Add) **104.1.1 Rule-making authority.** Pursuant to 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 Administrative Services, 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) **104.2 Determination of compliance.** The *building official* shall have the authority to determine compliance with this code and to adopt policies and procedures to clarify the application of its provisions. Such policies and procedures:

1. Shall be in compliance with the intent and purpose of this code.
2. Shall not have the effect of waiving requirements specifically provided for in this code.
3. Shall not have the effect of establishing requirements in excess of those set forth in this code.

(Del) **104.2.2. Technical Assistance.** Delete section and subsections in their entirety.

(Amd) **104.2.3 Alternative materials, design and methods of construction and equipment.** The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code, provided any such alternative is not specifically prohibited by this code and has been *approved*.

(Amd) **104.2.3.5 Tests.** Tests conducted to demonstrate equivalency in support of an alternative material, design or method of construction application shall be of a scale sufficient to predict performance of the end use configuration. Tests shall be performed by an *approved agency* acceptable to the *building official*.

(Amd) **104.2.3.5.1 Fire Tests.** Tests conducted to demonstrate equivalent fire safety in support of an alternative material, design or method of construction application shall be of a scale sufficient to predict fire safety performance of the end use configuration. Tests shall be performed by an *approved agency* acceptable to the *building official*.

(Del) **104.2.3.6.2 Other reports.** Delete section.

(Del) **104.2.4 Modifications.** Delete section and subsection and replace with the following:

(Add) **104.2.4 Modifications.** Modifications, variations, or exemptions from and approval of equivalent or alternative compliance with the requirements of this code shall be in accordance with the provisions of Sections 104.2.4.1 through 104.2.4.6.

(Add) **104.2.4.1 State Building Code.** Pursuant to subsection (b) of section 29-254 of the Connecticut General Statutes, the State Building Inspector may grant modifications, variations or exemptions from, or approve equivalent or alternate compliance with, the Connecticut State Building Code where strict compliance with the Connecticut State Building Code would entail practical difficulty or unnecessary hardship, or is otherwise adjudged unwarranted, provided 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 not later than 30 days after mailing of the decision.

(Add) **104.2.4.1.1 Action on application.** The application for modification, variation or exemption from or approval of equivalent or alternate compliance with the requirements of the Connecticut State Building Code shall be made on a form supplied by the State Building Inspector, which shall be submitted by the applicant to the *building official*. Pursuant to subsection (b) of section 29-254 of the Connecticut General Statutes, any such application received by a *building official* shall be forwarded to the State Building Inspector within 15 business days of receipt by such *building official*. The application shall include the *building official's* comments on the merits of the application and shall be signed by the *building official*.

(Add) **104.2.4.1.2 Records.** The application for modification, variation or exemption from or approval of equivalent or alternative compliance 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 of the municipality.

(Add) **104.2.4.2 Accessibility exemption.** Pursuant to subsection (b) of section 29-269 of the Connecticut General Statutes, any variation of or exemption from any provisions relating to accessibility to, use of and egress from, *buildings* and structures as required herein shall be permitted only when approved by the State Building Inspector. Pursuant to subsection (b) of section 29-269 of the Connecticut General Statutes, any person aggrieved by the decision of the State Building Inspector may appeal to the Codes and Standards Committee within 30 days after such decision has been rendered.

(Add) **104.2.4.3 Historic structures exemption.** Pursuant to section 29-259 of the Connecticut General Statutes, exemptions may be granted from the provisions of this code for historic structures, as defined in section 10-410 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. Exemptions *shall* be granted in accordance with Section 104.2.4 of this code.

(Add) **104.2.4.4 Urban homesteading property exemption.** Pursuant to section 29-259 of the Connecticut General Statutes, exemptions may be granted from 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 104.2.4 of this code.

(Add) **104.2.4.5 Elevators and escalators.** Pursuant to section 29-192 of the Connecticut General Statutes, the State Building Inspector may approve variations or exemptions from, or equivalent or alternate compliance with, regulations governing elevators and escalators where strict compliance with such provisions would cause practical difficulty or unnecessary hardship. Any person aggrieved by the decision of the State Building Inspector may appeal to the Commissioner of Administrative Services or said commissioner's designee not later than 30 days after notice of such decision has been rendered.

(Add) **104.2.4.6 Lift and limited use/limited access elevator approval.** Lifts and limited use, limited access elevators shall not be part of a required *accessible* path unless approved in accordance with the provisions of Section 1110.11 of this code.

(Amd) **104.4 Right of entry.** Pursuant to 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. Pursuant to section 29-393 of the Connecticut General Statutes, 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 an inspection.

(Del) **104.7 Official records.** Delete section and subsection in their entirety.

(Amd) **105.1 Required.** Any *owner* or *owner's* 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 performed, shall first make application to the *building official* and obtain the required *permit*.

(Add) **105.1.3 Connecticut State Fire Safety Code abatement.** Where conflicts exist between the requirements of this code and the requirements of a Connecticut State Fire Safety Code abatement order issued in writing by the local fire marshal with respect to an existing *building*, the requirements of that portion of the Connecticut State Fire Safety Code that regulates existing *buildings* shall take precedence.

Exceptions:

1. New *fire protection systems* shall meet the requirements of Chapter 9 of this code.
2. Electrical work shall meet the requirements of NFPA 70, *National Electrical Code*.
3. Structural, plumbing, and mechanical work shall conform to the requirements of this code.

(Amd) **105.2 Work exempt from permit.** Exemptions 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:

Building:

1. One-story detached accessory *structures* used as tool and storage sheds, playhouses and similar uses, provided the floor area is not greater than 200 square feet (18.58 m²).
2. Fences, other than *swimming pool* barriers, not over 7 feet (2134 mm) high.
3. Oil derricks.
4. Retaining walls that are not higher than 3 feet (914 mm) 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.
5. Water tanks supported directly upon grade if the capacity does not exceed 5,000 gallons (18925 L) and the ratio of height to diameter or width does not exceed 2 to 1.
6. Sidewalks, driveways and on-grade *concrete* or *masonry* patios not more than 30 inches (762 mm) above adjacent grade, not requiring *guards*, and not over any *basement* or *story* below and which are not part of an *accessible route*.
7. Painting, papering, tiling, carpeting, cabinets, countertops and similar finish work not involving new construction, structural changes or *alterations*.
8. Temporary motion picture, television and theater *stage* sets and scenery.
9. Prefabricated *swimming pools* accessory to a Use Group R-3 occupancy, as applicable in Section 101.2, which are equal to or less than 24 inches (610 mm) deep, do not exceed 5,000 gallons (18925 L) capacity and are installed entirely above ground.
10. Shade cloth *structures* constructed for nursery or agricultural purposes and not including service systems.
11. Swings and other playground equipment.

12. Window *awnings* in Group R-3 and U occupancies, supported by an *exterior wall* that do not project more than 54 inches (1372 mm) from the *exterior wall* and do not require additional support.
13. Nonfixed and movable fixtures, cases, racks, counters and partitions not higher than 5 feet 9 inches (1753 mm) and not containing any electrical, plumbing or mechanical equipment.
14. Portable *grandstands* or bleachers providing seating for fewer than 100 persons when located outside of a *building*.
15. Group U hoop homes or high tunnels for agricultural use.

Electrical:

1. Minor *repairs* and maintenance work, including replacement of lamps and fuses or the connection of *approved* portable electrical equipment to *approved* permanently installed receptacles.
2. Electrical equipment used solely for radio and television transmissions, but a *permit* is required for equipment and wiring for power supply and for the installation of towers and antennas.
3. Temporary testing systems required for the testing or servicing of electrical equipment or apparatus.

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 within any heating or cooling equipment regulated by 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 (4.54 kg) or less of refrigerant or that are actuated by motors of 1 horsepower (746 W) 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, drain pipe, water, soil, waste or vent pipe becomes defective and it becomes necessary to remove and replace the same with new material, such work shall be considered new work and a *permit* shall be obtained and inspection made as provided in this code.
2. The clearing of stoppages or the repairing of leaks in pipes, valves or fixtures, and the removal and reinstallation of water closets, provided such *repairs* do not involve or require the replacement or rearrangement of valves, pipes or fixtures.

(Del) **105.2.2 Public service agencies.** Delete Section 105.2.2 and replace with Section 105.2.2 below.

(Add) **105.2.2 Repairs.** Application or notice to the *building official* is not required for ordinary *repairs* to structures, replacement of lamps or the connection of approved portable electrical equipment to approved permanently installed receptacles. Such *repairs* shall not include the cutting away of any wall, partition or portion thereof, the removal or cutting of any structural beam or load-bearing support, or the removal or change of any required *means of egress*, or rearrangement of parts of a structure affecting the egress requirements; nor shall ordinary repairs include addition to, *alteration* of, replacement or relocation of any standpipe, water supply, sewer drainage, drain leader, gas, soil, waste, vent or similar piping, electric wiring or mechanical or other work affecting public health or general safety.

(Add) **105.2.3 Public service companies.** Pursuant to section 29-282 of the Connecticut General Statutes, a *permit* shall not be required for the installation, *alteration* or *repair* of generation, transmission, distribution, metering or other related equipment that is under the ownership and control of public service companies subject to regulation by the Public Utilities Regulatory Authority.

(Add) **105.2.4 State agency exemptions.** Pursuant to section 29-252a of the Connecticut General Statutes, a state agency shall not be required to obtain a building *permit* from a local *building official*. A state agency shall obtain a building *permit* for all buildings or alterations of existing buildings for which a building permit is required, as described in section 29-252a of the Connecticut General Statutes, from the State Building Inspector.

Exception: Pursuant to sections 29-401 through 29-415 of the Connecticut General Statutes, state agencies shall obtain demolition *permits* from the local *building official*.

(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) **105.3 Application for permit.** To obtain a *permit*, the applicant shall first file an application therefor in writing on a form furnished by the department of building safety for that purpose. Such application shall:

1. Identify and describe the work to be covered by the *permit* for which application is made.
2. Describe the land on which the proposed work is to be done by legal description, street address or similar description that will readily identify and definitely locate the proposed *building* or work.
3. Indicate the use and occupancy for which the proposed work is intended.
4. Be accompanied by *construction documents* and other information as required in Section 107.
5. State the valuation of the proposed work.
6. Be signed by the applicant, or the applicant's authorized agent.
7. Give such other data and information as required by the *building official*.
8. Be accompanied by a statement of special inspections as required by Section 1704.3.
9. Identify if the structure or addition exceeds the threshold limits cited in Section 107.7.
10. Identify a *registered design professional in responsible charge* as required by Section 107.3.4.
11. Identify *deferred submittals*, including a deferred submittal schedule, as required by Section 107.3.4.1.

(Amd) **105.3.1 Action on application.** Pursuant to section 29-263 of the Connecticut General Statutes, 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 applicable laws, statutes, regulations and ordinances, the *building official* shall reject such application in writing, stating the reasons therefor. If the *building official* is satisfied that the proposed work conforms to the requirements of this code and applicable laws, the *building official* shall issue a *permit* therefor as soon as practicable. In order

to meet the 30-day requirement set forth herein, *construction documents* shall be submitted by the applicant to both the *building official* and the local fire marshal, concurrently.

(Add) **105.3.1.1 Zoning approval.** Pursuant to subsection (f) of section 8-3 of the Connecticut General Statutes, no building *permit* shall be issued, in whole or in part, for a *building, structure* or use 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, structure* or use is in conformity with such regulations or is a valid nonconforming use under such regulations.

(Add) **105.3.1.2 Fire marshal approval.** Pursuant to section 29-263 of the Connecticut General Statutes, no building *permit* for a *building, structure* or use subject to the requirements of the Connecticut State Fire Safety Code shall be issued in whole or in part without certification in writing from the local fire marshal that the *construction documents* for such *building, structure* or use are in substantial compliance with the requirements of the Connecticut State Fire Safety Code.

(Add) **105.3.1.3 Historic certificate of appropriateness.** Pursuant to subsection (b) of section 7-147s of the Connecticut General Statutes, no building permit for erection of a building or *structure* or for *alteration* of an exterior architectural feature within the boundaries of an historic property and no demolition permit for demolition or removal of a building or *structure* within the boundaries of an historic property shall be issued by a municipality or any department, agency or official thereof until a certificate of appropriateness has been issued.

(Add) **105.3.1.4 Notice to Public Water Authority.** Pursuant to section 19a-37d of the Connecticut General Statutes, when a permit application is filed with the *building official* concerning any project that includes a change of use or installation of fixtures or facilities in a *building* that may affect the performance of, or require the installation of, a reduced pressure principle backflow preventer, a double check valve assembly or a pressure vacuum breaker, the *building official* shall provide written notice of the application to the water company serving the *building* not later than seven days after the date the application is filed. Upon receipt of such written notice, the water company shall cause to be performed an evaluation of cross-connection protection by a person who has met the requirements prescribed in the Regulations of Connecticut State Agencies and such water company shall notify the *building official* regarding its determination. The *building official* shall not issue a *permit* or *certificate of occupancy* until any cross-connection issue has been corrected.

(Add) **105.3.3 By whom application is made.** Pursuant to section 29-263 of the Connecticut General Statutes, an application for a *permit* shall be made by the *owner* or owner's authorized agent. If the owner's authorized agent is a licensed contractor, the provisions of section 20-338b of the Connecticut General Statutes shall be followed. The full names and addresses of the *owner*, owner's authorized agent and responsible officers, if the *owner* or agent is a corporate body, shall be stated in the application.

(Add) **105.3.4 Permit issuance to a home improvement contractor.** No *permit* shall be issued to a contractor who is required to be registered pursuant to chapter 400 of the Connecticut General Statutes, for work to be performed by such contractor, unless the name, business address and Department of Consumer Protection registration number of such contractor are clearly marked on the *permit* application, and the contractor has presented such contractor's certificate of registration as a home improvement contractor.

(Amd) **105.5 Expiration of permit.** Every *permit* issued shall become invalid unless the work on the *site* 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* may 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 116 of this code. Work performed under such *permits* shall be completed as expeditiously as possible.

(Add) **105.5.1 Nine-year closure.** Pursuant to subsection (c) of section 29-265 of the Connecticut General Statutes, nine years from the date of issuance of a building *permit* issued pursuant to section 29-263 of the Connecticut General Statutes for construction or *alteration* of a one-family dwelling, two-family dwelling or *structure* located on the same parcel as a one-family dwelling or two-family dwelling, for which construction or *alteration* a *certificate of occupancy*, as defined in the Connecticut State Building Code adopted pursuant to section 29-252 of the Connecticut General Statutes, has not been issued by the *building official*, such building *permit* shall be deemed closed.

(Amd) **107.1 General.** Submittal documents consisting of *construction documents*, statements of *special inspections*, geotechnical reports and other data shall be submitted in two or more sets, or in a digital format where allowed by the *building official*, with each *permit* application. The *construction documents* shall be prepared by a *registered design professional* where required by the statutes of the *jurisdiction* in which the project is to be constructed. Where special conditions exist, the *building official* is authorized to require additional *construction documents* to be prepared by a *registered design professional*.

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

(Amd) **107.2.1 Information on construction documents.** *Construction documents* shall be dimensioned and drawn on suitable material. Electronic media documents may be submitted where *approved* by the *building official*. *Construction documents* shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in detail that the work will conform to the provisions of this code and relevant laws, ordinances, rules and regulations, as determined by the *building official*. When the quality or arrangement of materials is essential for conformity to this code, specific information shall be given to establish such quality or arrangement, and this code shall not be cited, nor shall terms such as "legal", "per code" or their equivalent be used as a substitute for specific information.

(Add) **107.2.2.1 Fire sprinkler system shop drawings.** Working shop drawings for fire sprinkler system(s) shall be submitted to indicate conformance to this code and the *construction documents* and shall be *approved* prior to the start of system installation. Working shop drawings shall contain all information as required by the referenced installation standards in Chapter 9. Pursuant to section 29-263a of the Connecticut General Statutes, such working shop drawings and other documents shall be accompanied by evidence of licensure as an automatic fire sprinkler layout technician in accordance with section 20-304a of the Connecticut General Statutes or a professional engineer licensed in accordance with chapter 391 of the Connecticut General Statutes.

(Amd) **107.2.3 Means of egress.** The *construction documents* shall show in sufficient detail the location, construction, size and character of all portions of the *means of egress* including the path of the *exit discharge* to the *public way* in compliance with the provisions of this code. In other than occupancies in Groups R-2, R-3, and I-1, the *construction documents* shall designate the number of occupants to be accommodated on every floor, and in all rooms and spaces. For those occupancies utilizing the Small I-2 provisions, the *construction documents* shall designate the locations of the client areas and beds.

(Add) **107.2.6.2 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 pursuant to

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) **107.3.4.1 Deferred submittals.** Deferral of any submittal items shall have the prior approval of the *building official*. The *registered design professional in responsible charge* shall list the *deferred submittals* on the *construction documents* for review by the *building official*.

Documents for *deferred submittal* items shall be submitted to the *registered design professional in responsible charge*, who shall review them and forward them to the *building official* with a notation indicating that the *deferred submittal* documents have been reviewed and found to be in general conformance to the design of the *building*. The *deferred submittal* items shall not be installed until the *deferred submittal* documents have been approved by the *building official*.

Documents for *deferred submittals* that relate to the primary structural support systems of *buildings* or *structures* that exceed the threshold limit set forth in Section 107.7 of this code shall also be submitted to the independent structural engineering consultant by the *registered design professional in responsible charge*. Such *deferred submittal* items shall not be installed until the *deferred submittal* documents have been reviewed and found to be in general conformance to the design of the *building* by the independent structural engineering consultant and *approved* by the *building official*.

(Amd) **107.5 Retention of construction documents.** The *building official* shall retain one set of *approved construction documents* for a period as set forth in the records disposition schedule adopted pursuant to chapter 188 of the Connecticut General Statutes.

Exception: Pursuant to 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*.

(Add) **107.6 Additional requirements.** Pursuant to section 29-276c of the Connecticut General Statutes, the *plans and specifications* for any proposed *structure* or *addition* classified as (1) assembly, educational, institutional, high-hazard, *transient* residential, which includes *hotels*, motels, rooming or boarding houses, dormitories or similar *buildings*, other than residential *buildings* designed to be occupied by one or more families, without limitation as to size or number of stories; (2) business, factory and industrial, mercantile, moderate and low-hazard storage, having three stories or more or exceeding 30,000 square feet (2787 m²) total gross area; and (3) nontransient residential *dwellings* having more than 16 units or 24,000 square feet (2230 m²) total gross area per *building*, shall be sealed by a licensed architect or professional engineer as defined by the statutory requirements of the professional registration laws of the state of Connecticut, and acting within the scope of their practice. Such architect or engineer shall be responsible for the review of shop drawings and the observation of construction. In the event such architect or engineer is unable to fulfill his or her review responsibilities, an additional architect or engineer shall be retained and the local *building official* shall be informed, in writing, of such retainer. If fabricated structural load-bearing members or assemblies are used in such construction, the licensed professional engineer responsible for the design of such members or assemblies shall be responsible for the implementation of the design by reviewing the fabrication process to ensure conformance with the design specifications and parameters. The additional requirements set forth in this subsection shall not apply to *alterations, repairs, relocation or change of occupancy* to any existing *building*.

(Add) **107.7 Threshold limits.** Pursuant to section 29-276b of the Connecticut General Statutes, this section shall apply to any proposed *structure* or *addition* thereto that exceeds one or more of the following threshold limits:

1. Having four stories;
2. 60 feet in height;
3. With a clear span of 150 feet in width;
4. Containing 150,000 square feet of total *gross floor area*;

Exception: For Group S (Storage) the limit shall be 250,000 total gross square feet.

5. With an occupancy of 1,000 persons;
6. Group I (Institutional) use with 150 beds or persons;
7. Group R-1 (Residential) *hotels* or motels with 200 rooms in a single *structure*;
8. Group R-2 (Residential) multiple-family with 100 *dwelling units* in a single *structure*; or
9. Group S (Storage) parking *structures* with 1,000 cars.

Threshold limits shall not apply to *alterations, repairs or change of occupancy* to any existing *building*.

(Add) **107.7.1 Requirements for proposed structures or additions that exceed the threshold limits.**

Pursuant to section 29-276b of the Connecticut General Statutes, if a proposed *structure* or *addition* to an existing *structure* will exceed any threshold limit set forth in Section 107.7 of this code, the *building official* of the municipality in which the *structure* or *addition* will be located shall require that an independent structural engineering consultant review the structural plans and design specifications of the *structure* or *addition* to be constructed to determine compliance with the requirements of this code to the extent necessary to assure the stability and integrity of the primary structural support systems of such *structure* or *addition*. The building official may prequalify independent structural engineering consultants to perform the reviews. Any modifications of *approved* structural plans or design specifications shall require revised structural plans, revised design specifications, supplementary structural sketches and/or shop drawings to the extent necessary to determine compliance with the requirements of this code and shall be reviewed by such consultant. Any *deferred submittals* that relate to the primary structural support systems shall be reviewed by such consultant. Any fees relative to such review requirements shall be paid by the *owner* of the proposed building project.

If a *structure* or *addition* exceeds the threshold limit, the architect of record, professional engineer of record responsible for the design of the *structure* or *addition* and the general contractor shall sign a statement of professional opinion affirming that the completed construction is in substantial compliance with the *approved* plans and design specifications. If fabricated structural load-bearing members or assemblies are used in the construction, the professional engineer responsible for the design of such members or assemblies shall sign a statement of professional opinion affirming that the completed fabrication is in substantial compliance with the *approved* design specifications.

The *building official* of the municipality in which the *structure* or *addition* will be located shall satisfy himself that each architect, professional engineer, including each professional engineer responsible for the design of fabricated structural load-bearing members or assemblies, general contractor and major subcontractor involved in the project holds a license to engage in the work or occupation for which the appropriate building *permit* has been issued.

(Add) **107.8 Lift-slab construction.** Pursuant to subsection (b) of section 29-276a of the Connecticut General Statutes, any *building* designed to be constructed utilizing the lift-slab method of construction shall be classified as exceeding the "threshold limit" and shall be subject to the provisions of Section 107.7.1 of this code and construction thereof shall comply with the provisions of 29 CFR 1926 and section 31-372-107-1926 of the Regulations of Connecticut State Agencies.

(Amd) **108.1 General.** The *building official* may issue a *permit* for *temporary structures*, equipment or systems. Such *permits* shall be limited as to time of service but shall not be permitted for more than 180 days. The *building official* may grant a single 180-day extension for demonstrated cause. *Structures* designed to comply with Section 3103.9 shall not be in service for a period of more than 1 year.

Exception: *Tents, canopies and other membrane structures* erected for a period of fewer than 180 days shall comply with Section 3103.5 of this code.

(Amd) **109.2 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 in the building department of the municipality for public view.

(Del) **109.4 Work commencing before permit issuance.** Delete without substitution.

(Add) **110.1.1 Posting of required inspections.** A schedule of required inspections shall be compiled by the *building official*. The schedule shall be posted in the building department of the municipality for public view.

(Add) **110.1.2. Remote inspections.** The *building official* shall be permitted to conduct inspections and witness testing remotely which *shall* be in accordance with the policies and procedures indicated in Section 104.2.

(Add) **110.3.1.1 Rigid inclusion system.** For *buildings* or *structures* where *rigid inclusion systems* are provided, as-built drawing(s) and other information as required to document the *rigid inclusion system* installation and related activities shall be prepared and sealed by the *rigid inclusion system* designer and submitted to the *building official* and the *registered design professional in responsible charge*. The information shall include, at a minimum, the load test report, the *rigid inclusion* layout, locations and cut-off elevations, and any deviations between the *rigid inclusion system* design and the as-built conditions.

(Add) **110.3.10.1 Additional 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. The building official shall perform 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) **110.6.1 Notification of inspection results.** Notification as to passage or failure, in whole or in part, of any required inspection shall be made in writing by the *building official* or his duly authorized representative and shall be left at the job *site* or delivered to the *permit holder*. Any violations cited must contain the Connecticut State Building Code year under which the permit was issued, the model code referenced, and the applicable section. It shall be the duty of the *permit holder* to ascertain the results of required inspections. Notifications may be delivered electronically.

(Add) **110.7 Acceptance of fire marshal reports.** The local *building official* may accept the reports of the fire marshal concerning a code compliance review or inspection in lieu of conducting the review or inspection himself or herself.

(Amd) **111.1 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* or structure or work performed pursuant to the *building permit* substantially complies with the provisions of this 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 111.6.
2. A *certificate of occupancy* is not required for work exempt from *permit* requirements under Section 105.2.
3. Pursuant to section 29-252a of the Connecticut General Statutes, state agencies, the Connecticut Airport Authority and the Connecticut Port Authority shall not be required to obtain a *certificate of occupancy* from a local *building official*. State agencies or the applicable authority shall obtain a *certificate of occupancy* for all buildings or alterations of existing buildings for which a building permit is required as described in section 29-252a of the Connecticut General Statutes from the State Building Inspector.

(Add) **111.1.1 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) **111.1.2 Fire marshal approval.** No *certificate of occupancy*, *temporary certificate of occupancy*, *partial certificate of occupancy* or *certificate of approval* for a *building*, structure or use subject to the requirements of the Connecticut State Fire Safety Code shall be issued without certification in writing from the local fire marshal that the *building*, structure or use is in substantial compliance with the requirements of the Connecticut State Fire Safety Code.

(Add) **111.1.3 Statement of professional opinion.** Pursuant to section 29-276c of the Connecticut General Statutes, no *certificate of occupancy* shall be issued for a proposed structure or *addition* to *buildings* classified as (1) assembly, educational, institutional, high-hazard, *transient* residential, which includes *hotels*, motels, rooming or boarding houses, dormitories or similar *buildings*, other than residential *buildings* designed to be occupied by one or more families, without limitation as to size or number of stories; (2) business, factory and industrial, mercantile, moderate and low-hazard storage, having three stories or more or exceeding 30,000 square feet (2787 m²) total gross area; and (3) nontransient residential *dwellings* having more than 16 units or 24,000 square feet (2230 m²) total gross area per *building*, until the *building official* has been provided with a statement signed by the architect or professional engineer and the general contractor stating that the completed structure or *addition* is in substantial compliance with the *approved* plans and specifications on file.

(Add) **111.1.3.1 Threshold structures.** No *certificate of occupancy* shall be issued for a proposed structure or *addition* that exceeds the threshold limits cited in Section 107.7 until the *building official* has been provided with statements of professional opinion signed by the architect of record, the professional engineer of record responsible for the design of the structure or *addition* and the general contractor, affirming that the completed construction is in substantial compliance with the approved plans and design specifications. If fabricated structural load-bearing members or assemblies are used in the construction, the *building official* shall be provided with statement(s) of professional opinion signed by the professional engineer(s) responsible for the design of such members or assemblies, affirming that the completed fabrication is in substantial compliance with the approved design specifications.

(Add) **111.1.4 Special inspections.** No *certificate of occupancy* shall be issued for a proposed structure or *addition* until the *building official* has been provided with the final reports of inspections documenting completion of special inspections as required by Section 1704.2.4 and correction of any discrepancies noted in the inspections.

(Add) **111.1.5 Concrete documentation.** Pursuant to section 29-265c of the Connecticut General Statutes, prior to the issuance of a *certificate of occupancy* for a new residential or commercial building for which a concrete foundation was installed on or after October 1, 2016, the applicant shall provide the *building official* with written documentation of the name of the individual or entity that supplied the concrete and the name of the individual or entity that installed the concrete. Copies of such documentation shall be maintained in the records of the office of the *building official* for not less than fifty years.

(Amd) **111.3 Temporary occupancy.** The *building official* may issue a temporary *certificate of occupancy* before the completion of the entire work covered by the *permit*, provided such portion or portions shall be occupied safely prior to full completion of the *building* or *structure* without endangering life or public welfare. Any occupancy permitted to continue during completion of the work shall be discontinued within 30 days after completion of the work unless a *certificate of occupancy* is issued by the *building official*. No *temporary certificate of occupancy* shall be issued for work subject to the zoning regulations of a municipality without certification in writing by the official charged with the enforcement of such regulations that the work is in conformity with such regulations or is a valid nonconforming use under such regulations.

(Add) **111.5 Partial occupancy.** The *building official* may issue a partial *certificate of occupancy* for a portion of the *building* or *structure* when, in the *building official's* 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 the portion of the *building* not covered by the partial *certificate of occupancy*. No *partial certificate of occupancy* shall be issued for work subject to the zoning regulations of a municipality without certification in writing by the official charged with the enforcement of such regulations that the work is in conformity with such regulations or is a valid nonconforming use under such regulations.

(Add) **111.6 Certificate of approval.** The *building official* shall issue a certificate of approval 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: fences greater than 7 feet (2134 mm) in height; retaining walls greater than 3 feet (914 mm) in height; decks; garages; *swimming pools*; basements and attics converted to *habitable space*; and electrical, plumbing, and mechanical *repairs* or *alterations*. No *certificate of approval* shall be issued for work subject to the zoning regulations of a municipality without certification in writing by the official charged with the enforcement of such regulations that the work is in conformity with such regulations or is a valid nonconforming use under such regulations.

(Add) **111.7 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 110.3.10.

(Del) **SECTION 113 BOARD OF APPEALS.** Delete this section in its entirety and replace with the following:

(Add) **SECTION 113 MEANS OF APPEAL**

(Add) **113.1 Appeal from decision of building official.** Pursuant to subsection (b) 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 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 or by electronic mail 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 or by electronic mail from the decision of the *building official* to the municipal board of appeals as provided by subsection (b) of section 29-266 of the Connecticut General Statutes.

(Add) **113.1.1 Absence of municipal board of appeals.** In the absence of a municipal board of appeals, the provisions of subsection (c) of section 29-266 of the Connecticut General Statutes shall be followed.

(Add) **113.1.2 State Building Inspector review.** Pursuant to 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, when he has reason to believe that such official or board has misconstrued or misinterpreted any provision of the State Building Code.

(Add) **113.2 Appointment of municipal board of appeals.** Pursuant to subsection (a) of section 29-266 of the Connecticut General Statutes, a municipal board of appeals consisting of five members shall be appointed by each municipality.

(Add) **113.2.1 Qualifications.** One member of the municipal board of appeals shall be appointed from the general public. The other four members shall each have at least five years of experience in *building* design, *building* construction or supervision of *building* construction.

(Add) **113.2.2 Chairperson.** The board shall annually select one of its members to serve as chairperson.

(Add) **113.3 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) **113.4 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) **113.5 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 chairperson of the municipal board of appeals shall appoint a panel of not less than three members of such board to hear such appeal.

(Add) **113.6 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) **113.7 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

filings of the decision with the *building official* in accordance with the provisions of section 29-266 of the Connecticut General Statutes.

(Add) **113.8 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.

(Add) **114.2.1 Written notice.** The notice of violation shall be in writing and shall be given to the *owner* of the property involved, or to the *owner's* agent or to the person doing the work.

(Amd) **114.4 Violation penalties.** Pursuant to section 29-254a of the Connecticut General Statutes, any person who violates any provision of this code shall be fined not less than two hundred dollars nor more than one thousand dollars or imprisoned not more than six months, or both.

(Amd) **115.4 Failure to comply.** 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 conditions, shall be liable for penalties in accordance with Section 114.4.

(Add) **116.1.1 Maintenance.** *Buildings, structures, and parts thereof* shall be maintained safely and sanitary. Devices or safeguards which are required by this code shall be maintained in conformance with the code edition under which it is installed. The owner or the owner's authorized agent shall be responsible for the maintenance of *buildings* and *structures*. To determine compliance with this subsection, the *building official* shall have the authority to require a *building* or *structure* to be reinspected.

(Add) **116.1.2 Elevators.** Where installed in *buildings* five stories or more, elevators shall be maintained in safe working order and shall not remain out of service for greater than 30 consecutive days or more than 60 days in a 12-month period, without an *approved* repair and return to operation plan.

(Add) **116.6 Unsafe equipment.** Equipment deemed unsafe by the *building official* or his authorized representative shall not be operated after the date stated in the notice unless the required *repairs* or changes have been made and the equipment has been *approved*, or unless an extension of time has been secured from the *building official* or his authorized representative in writing.

(Add) **116.6.1 Authority to seal equipment.** In the case of emergency, the *building official* or his authorized representative may seal out of service immediately any unsafe device or equipment regulated by this code.

(Add) **116.6.2 Unlawful to remove seal.** Any device or equipment sealed out of service by the *building official* or his authorized representative shall be plainly identified as out of service by such official and shall indicate the reason for such sealing. The identification shall not be tampered with, defaced or removed except by the *building official* or his authorized representative.

(Add) **116.7 Hazardous conditions.** Pursuant to the provisions of section 29-393 of the Connecticut General Statutes, 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* shall immediately make an inspection by himself or by his assistant, and may make orders for additional *exit* facilities or the *repair* or *alteration* of the *building* if the same is susceptible to *repair* or both or for the removal of such *building* or any portion thereof if any such order is necessary in the interests of public safety. Any *building official* shall have the right of entry into all *buildings* for the performance of his duties between the hours of nine o'clock a.m. and five o'clock p.m., in the interests of public safety.

(Add) **116.7.1 Penalty.** Pursuant to the provisions of section 29-394 of the Connecticut General Statutes, any person who, by himself or his agent, fails to comply with the written order of a building inspector for the provision of additional *exit* facilities in a *building*, the *repair or alteration* of a *building* or the removal of a *building* or any portion thereof, shall be fined not less than two hundred dollars nor more than one thousand dollars or imprisoned not more than six months, or both.

(Add) SECTION 117 EMERGENCY MEASURES

(Add) **117.1 Imminent danger.** When, in the opinion of the *building official*, there is imminent danger of failure or collapse of a *building* or structure or any part thereof which endangers human life, or when any *building* or structure or part thereof has fallen and human life is endangered by the occupation of the *building* or structure, the *building official* is hereby authorized and empowered to order and require the occupants to vacate the same forthwith. The *building official* shall post, or cause to be posted, at each entrance to such *building* or structure a notice reading as follows: "This structure is unsafe and its occupancy has been prohibited by the *building official*." It shall be unlawful for any person to enter such premises except upon permission granted by the *building official* for the purposes of making the required *repairs* or of demolishing the premises. The posted identification shall not be defaced or removed except by the *building official* or his authorized representative.

(Add) **117.2 Temporary safeguards.** When, in the opinion of the *building official*, there is imminent danger to human life due to an unsafe condition, the *building official* shall cause the necessary work to be done to render such *building* or structure temporarily safe, whether or not the legal procedure described in Section 116 has been instituted.

(Add) **117.3 Temporary closings.** When necessary for public safety, the *building official* shall temporarily close *buildings* and structures and close, or order the authority having *jurisdiction* to close, sidewalks, streets, *public ways* and places adjacent to unsafe structures, and prohibit the same from being used.

(Add) **117.4 Emergency work.** When imminent danger or an unsafe condition requiring immediate action exists and the *owner* of the *building* or structure cannot be located, or refuses or is unable to expeditiously render the premises safe, the *building official* shall order the employment of the necessary labor and materials to perform the required work as expeditiously as possible. Such work shall include that required, in the *building official's* sole opinion, to make the premises temporarily safe, up to and including demolition.

(Add) **117.5 Costs of emergency work.** Costs incurred in the performance of emergency *repairs* or demolition under the order of the *building official* shall be paid from the treasury of the town, city or borough in which the *building* or structure is located on approval of the *building official*. The legal counsel of the town, city or borough shall institute appropriate action against the *owner* of the premises where the unsafe *building* or structure is or was located.

(Add) SECTION 118 VACANT BUILDINGS

(Add) **118.1 General.** Temporarily unoccupied *buildings*, structures, premises or portions thereof, including tenant spaces, shall be safeguarded and maintained in accordance with this section.

(Add) **118.1.1 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) **118.2 Safeguarding vacant premises.** Temporarily unoccupied *buildings*, structures, premises or portions thereof shall be secured and protected in accordance with this section.

(Add) **118.2.1 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) **118.2.2 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 may be placed out of service and standpipes may 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) **118.2.3 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) **118.3 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) **118.4 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 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 Connecticut State Building Code, such terms shall have the meanings ascribed to them as in those adopted codes.

(Amd) **SECTION 202 – DEFINITIONS** Add or amend the following definitions:

(Add) **ACCESSORY STRUCTURE.** A structure that is accessory to and incidental to that of a Group R-3 *dwelling* and that is located on the same *lot*.

(Amd) **APPROVED AGENCY.** An established and recognized organization that is regularly engaged in conducting tests, furnishing inspection services or furnishing product evaluation or certification, where such organization has been *approved* by the *building official*. Officials certified in accordance with the provisions of section 29-298 of the Connecticut General Statutes and employed by the *jurisdiction* in which the *building* or structure is being constructed, shall be considered an *approved agency* for the portions of this code also regulated by the Connecticut State Fire Safety Code. Pursuant to subsection (e)(1) of section 29-

276b of the Connecticut General Statutes, an *approved agency* conducting tests or furnishing inspection services of soils or concrete must be certified under the National Voluntary Laboratory Accreditation Program of the National Institute of Standards and Technology.

(Add) **BULK MERCHANDISING RETAIL BUILDING.** A *building* exceeding 12,000 square feet (1115 m²) in area in which the sales area includes the storage of combustible materials on pallets, in solid piles or in racks in excess of 12 feet (3658 mm) in storage height.

(Add) **CHILD CARE CENTER.** A facility which offers or provides a program of supplementary care for more than twelve related or unrelated children outside their own homes on a regular basis, as described in subsection (a)(1) of section 19a-77 of the Connecticut General Statutes, that operates in accordance with the licensing requirements and regulations adopted by the Commissioner of Early Childhood in accordance with section 19a-79 of the Connecticut General Statutes.

(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, except any single-family detached *dwelling*.

(Add) **DIAPER CHANGING TABLE.** A table or other device suitable for changing the diaper of a child aged 3 or under.

(Add) **DWELLING, THREE-FAMILY (TRIPLEX).** A building on a single lot, other than a *townhouse*, containing not more than three *dwelling units*, with not more than six lodgers or boarders per *dwelling unit*, and with common walls or a common floor/ceiling between the *dwelling units*.

(Add) **DWELLING, FOUR-FAMILY (QUADRUPLEX).** A building on a single lot, other than a *townhouse*, containing not more than four *dwelling units*, with not more than six lodgers or boarders per *dwelling unit*, and with common walls or common floor/ceiling between the *dwelling units*.

(Amd) **EXISTING BUILDING.** 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*.

(Del) **EXISTING STRUCTURE.** Delete without substitution.

(Amd) **FABRICATED ITEM.** Structural, load-bearing or lateral load-resisting members or assemblies consisting of materials assembled prior to installation in a *building* or structure, or subjected to operations such as heat treatment, thermal cutting, cold working or reforming after manufacture and prior to installation in a *building* or structure. Materials produced in accordance with standards referenced by this code, such as rolled structural steel shapes, steel reinforcing bars, *masonry units*, *wood structural panels* and structural composite lumber, or in accordance with a referenced standard that provides requirements for quality control done under the supervision of a third-party quality control agency, shall not be considered “*fabricated items*.”

(Add) **FAMILY CHILD CARE HOME.** A private family home or residence providing care for related or unrelated children on a regularly recurring basis, as described in subsection (a)(3) of section 19a-77 of the Connecticut General Statutes, that operates in accordance with the licensing requirements and regulations adopted by the Commissioner of Early Childhood in accordance with section 19a-87b of the Connecticut General Statutes.

(Amd) **FOSTER CARE FACILITIES.** Facilities that provide care for more than three children, 3 years of age or younger pursuant to a license issued in accordance with chapter 319a of the Connecticut General Statutes.

(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) **GROUP CHILD CARE HOME.** A facility that offers or provides a program of supplementary care for related or unrelated children on a regular basis that operates in either a commercial facility or residence, as described in subsection (a)(2) of section 19a-77 of the Connecticut General Statutes, and operates in accordance with the licensing requirements and regulations adopted by the Commissioner of Early Childhood in accordance with section 19a-79 of the Connecticut General Statutes.

(Add) **GROUP R-1 BED AND BREAKFAST ESTABLISHMENT.** A *building* that does not qualify as a one- or two-family *dwelling unit* in accordance with Section 101.2 and:

1. That provides sleeping accommodations to the public for a fee for no more than 16 persons with *guesstrooms* limited to the first or second floor of the structure,
2. Where the owner occupies the facility or an adjacent property as his or her primary place of residence,
3. Where cooking or food warming of any type is not allowed in *guesstrooms*, and
4. That has a maximum of three stories in height and does not contain a mixed occupancy.

(Add) **HOTEL.** Any *building* containing six or more *guesstrooms*, intended or designed to be used, or which are used, rented or hired out to be occupied or which are occupied for sleeping purposes by guests.

(Amd) **HURRICANE-PRONE REGIONS.** Areas where the basic design wind speed, *V*, for Risk Category II buildings is greater than 115 mph (51.4 m/s), except for the following municipalities: Barkhamsted, Bridgewater, Canaan, Colebrook, Cornwall, Goshen, Hartland, Kent, Litchfield, Morris, New Fairfield, New Hartford, New Milford, North Canaan, Salisbury, Sherman, Torrington, Warren, Washington and Winchester.

(Amd) **LODGING HOUSE.** A *building* that does not qualify as a one- or two-family *dwelling unit* in accordance with Section 101.2 or an *R-1 Bed and Breakfast Establishment*, and that contains only the owner's *dwelling unit* and *guesstrooms* without permanent provisions for cooking, with a total building occupant load of not more than 16 persons.

(Add) **PLANS AND SPECIFICATIONS.** See *construction documents*.

(Amd) **REGISTERED DESIGN PROFESSIONAL.** An individual who is registered or licensed by the Department of Consumer Protection pursuant to chapter 390, 391, 396 or 396a of the Connecticut General Statutes to practice the individual's respective design profession and acting within the scope of his or her license or registration and practice discipline.

(Add) **RIGID INCLUSIONS.** Vertical elements within the ground consisting of timber, steel, *concrete*, grout, or other combination of cementitious materials mixed with aggregates, or other materials that are significantly stiffer than the ground in which they are installed and do not require lateral confinement of the surrounding soil for internal stability. *Rigid inclusions* are not connected directly to foundations.

(Add) **RIGID INCLUSION LOAD TRANSFER LAYER.** Materials placed between *rigid inclusions* and shallow foundations.

(Add) **RIGID INCLUSION SYSTEMS.** *Rigid Inclusions*, the strata and materials in which they are installed, and a *rigid inclusion load transfer layer*.

(Add) **SPA, EXERCISE (Also known as a swim spa).** Variants of a spa in which the design and construction includes specific features and equipment to produce a water flow intended to allow recreational physical activity including, but not limited to, swimming in place. *Exercise spas* can include peripheral jetted seats intended for water therapy, heater, circulation and filtration system, or can be a separate distinct portion of a combination spa/exercise spa and can have separate controls. *Exercise spas* are of a design and size such that they have an unobstructed volume of water large enough to allow the 99th Percentile Man as specified in APSP 16 to swim or exercise in place.

(Amd) **SPECIAL AMUSEMENT AREA.** A temporary or permanent *building* or portion thereof that is occupied for amusement, entertainment or educational purposes and is arranged in a manner that meets one or more of the following descriptions:

1. Makes the *means of egress* path not readily apparent due to visual or audio distractions.
2. Intentionally confounds identification of the *means of egress* path.
3. Otherwise makes the *means of egress* path not readily available because of the nature of the attraction or mode of conveyance through the *building or structure*.

Exception: Children's play structures that do not exceed 10 feet in height and do not have an aggregate horizontal projection in excess of 300 square feet.

(Add) **SPECIAL INSPECTIONS COORDINATOR.** An individual *registered design professional* or firm responsible for managing and coordinating the *special inspection* and testing program.

(Amd) **SPRAY-APPLIED FOAM PLASTIC.** Single- and multiple-component, spray-applied foam plastic insulation used in nonstructural applications that are installed at locations wherein the material is applied in a liquid or frothed state, permitted to free rise and cure in situ and certified pursuant to section 29-277 of the Connecticut General Statutes.

(Add) **STREET FLOOR.** For application of accessibility requirements, this term means the floor nearest the *level of exit discharge*.

(Add) **TECHNICALLY INFEASIBLE.** An *alteration* of a *building* or a *facility* that has little likelihood of being accomplished because the existing structural conditions require the removal or *alteration* of a load-bearing member that is an essential part of the structural frame, or because other physical or *site* constraints prohibit modification or addition of elements, spaces or features that are in full and strict compliance with the minimum requirements for new construction and that are necessary to provide accessibility. Pursuant to subsection (b) of section 29-269 of the Connecticut General Statutes, the determination of technical infeasibility shall be made by the State Building Inspector.

(Add) **TRIPLEX.** See "**DWELLING, THREE-FAMILY.**"

(Add) **QUADRUPLEX.** See "**DWELLING, FOUR-FAMILY.**"

(Amd) **TYPE B UNIT.** A *dwelling unit* or *sleeping unit* designed and constructed for accessibility in accordance with this code and the provisions for *Type B units* in ICC A117.1, as amended.

(Amd) **WIND-BORNE DEBRIS REGION.** Areas within *hurricane-prone regions* located within 1 mile (1.61 km) of the mean high-water line where an Exposure D condition exists upwind at the waterline and the basic wind speed, *V*, is 130 mph (58 m/s) or greater as determined using the ASCE Wind Design Geodatabase which is available at <https://ascehazardtool.org>.

For *Risk Category II buildings and structures* and *Risk Category III buildings and structures*, except health care facilities, the windborne debris region shall be based on basic wind speeds for *Risk Category II structures*. For *Risk Category IV buildings and structures* and *Risk Category III health care facilities*, the windborne debris region shall be based on basic wind speeds for *Risk Category IV* and *Risk Category III structures*, respectively.

CHAPTER 3 – USE AND OCCUPANCY CLASSIFICATION

(Amd) **305.2 Group E, day care facilities.** This group includes *buildings and structures*, or portions thereof, occupied by more than six children 3 years of age or older who receive educational, supervision or *personal care services* for fewer than 24 hours per day.

(Amd) **305.2.2 Six or fewer children.** A *facility* having six or fewer children receiving such day care shall be classified as part of the primary occupancy.

(Amd) **305.2.3 Family child care home.** A *family child care home*, that operates in a *dwelling unit* within a one-family or two-family residence shall be classified as a Group R-3 occupancy or shall comply with the *International Residential Code*.

Exception: A *family child care home* that operates within a *dwelling unit* in a Group R-2 occupancy shall be classified as part of the primary occupancy.

(Add) **305.2.4 Group child care home.** A *group child care home*, that operates in a *dwelling unit* within a one-family or two-family residence shall be classified as a Group R-3 occupancy or shall comply with the *International Residential Code*.

(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 307.1(1) of this code, or
2. The new or existing retail store or retail sales *facility* complies with the provisions of NFPA 1124 for new stores and facilities as herein amended.

(Add) **307.5.2 Storage rooms.** The provisions of NFPA 1124, 2006 edition, are amended for use in Connecticut as follows:

(Add) **NFPA 1124, 7.3.7 Storage rooms.** Storage rooms, regardless of size, containing consumer *fireworks*, in a new or existing permanent store shall be protected with an *automatic sprinkler system* installed in accordance with NFPA 13, *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.

(Add) **NFPA 1124, 7.5.3 Storage rooms.** Storage rooms, regardless of size, containing consumer *fireworks*, in a new or existing permanent store shall be protected with an *automatic sprinkler system* installed in accordance with NFPA 13, *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) **308.2.3 Four to 16 persons receiving custodial care.** A *facility* housing not fewer than four and not more than 16 persons receiving *custodial care* shall be classified as R-4.

(Amd) **308.2.4 Three or fewer persons receiving custodial care.** A *facility* with three or fewer persons receiving *custodial care* shall be classified as Group R-3 or shall comply with the *International Residential Code*.

(Amd) **308.3 Institutional Group I-2.** Institutional Group I-2 occupancy shall include *buildings* and *structures* used for *medical care* on a *24-hour basis* for more than three persons who are *incapable of self-preservation*. This group shall include, but not be limited to, the following:

- Foster care facilities
- Detoxification facilities*
- Hospitals
- Nursing homes*
- Psychiatric hospitals

(Amd) **308.3.2 Three or fewer persons receiving medical care.** A *facility* with three or fewer persons receiving *medical care* shall be classified as Group R-3 or shall comply with the *International Residential Code*, provided an *automatic sprinkler system* is installed in accordance with Section 903.3.1.3 or Section P2904 of the *International Residential Code*.

(Add) **308.3.3 Alternative compliance for small I-2 homes.** See Section 407.14 for alternative compliance provisions for Group I-2 homes serving four to six persons who are *incapable of self-preservation*.

(Amd) **308.4 Institutional Group I-3.** Institutional Group I-3 occupancy shall include *buildings* and *structures* that are inhabited by more than three persons who are under restraint or security. A Group I-3 *facility* is occupied by persons who are generally *incapable of self-preservation* due to security measures not under the occupants' control. This group shall include, but not be limited to, the following:

- Correctional centers
- Detention centers
- Jails
- Prerelease centers
- Prisons
- Reformatories

Buildings of Group I-3 shall be classified as one of the occupancy conditions indicated in Sections 308.4.1 through 308.4.5 and shall comply with Section 408.

(Amd) **308.5 Institutional Group I-4, day care facilities.** Institutional Group I-4 occupancy shall include *buildings* and *structures* occupied by more than six persons of any age who receive *custodial care* for fewer than 24 hours per day by persons other than parents or guardians, relatives by blood, marriage or adoption, and in a place other than the home of the person cared for. This group shall include, but not be limited to, the following:

- Adult day care
- Child day care

(Amd) **308.5.1 Classification as Group E.** A child day care *facility* that provides care for more than six but not more than 100 children 3 years or less of age, where the rooms in which the children are cared for are located on the *level of exit discharge* serving such rooms and each of these child care rooms has an *exit* door directly to the exterior, shall be classified as Group E.

(Amd) **308.5.3 Six or fewer persons receiving care in other than a dwelling unit.** A *facility* having six or fewer persons receiving *custodial care* in other than a *dwelling unit* shall be classified as part of the primary occupancy.

(Amd) **308.5.4 Family child care home.** A *family child care home* that operates in a *dwelling unit* within a one-family or two-family residence shall be classified as a Group R-3 occupancy or shall comply with the *International Residential Code*.

Exception: A *family child care home* that operates within a *dwelling unit* in a Group R-2 occupancy shall be classified as part of the primary occupancy.

(Add) **308.5.5 Group child care home.** A *group child care home* that operates in a *dwelling unit* within a one-family or two-family residence shall be classified as a Group R-3 occupancy or shall comply with the *International Residential Code*.

(Amd) **310.1 Residential Group R.** Residential Group R includes, among others, the use of a *building* or *structure*, or a portion thereof, for sleeping purposes when not classified as an Institutional Group I or when not regulated by the *International Residential Code*. Group R occupancies not constructed in accordance with the *International Residential Code* as permitted by Section 101.2 shall comply with Section 420.

(Amd) **310.2 Residential Group R-1.** Residential Group R-1 occupancies containing *sleeping units* or more than two *dwelling units* where the occupants are primarily *transient* in nature, including:

Bed and breakfast establishments
Boarding houses (transient) with more than 10 occupants
Congregate living facilities (transient) with more than 10 occupants
Hotels (transient)
Motels (transient)

(Add) **310.2.1 Group R-1 bed and breakfast establishments.** A *building* that does not qualify as a one- or two-family *dwelling unit* in accordance with Section 101.2 and:

1. That provides sleeping accommodations to the public for a fee for no more than 16 persons with *guestrooms* limited to the first or second floor of the structure,
2. Where the owner occupies the facility or an adjacent property as his or her primary place of residence,
3. Where cooking or food warming of any type is not allowed in *guestrooms*, and
4. That is a maximum of three stories in height and does not contain a mixed occupancy.

(Add) **310.2.1.1 Kitchens in Group R-1 bed and breakfast establishments.** Kitchens in *Group R-1 bed and breakfast establishments* shall be separated by $\frac{1}{2}$ -hour-rated fire separation assemblies.

Exceptions:

1. Fire separation assemblies shall not be required when the kitchen is protected by a limited-area sprinkler system.
2. Fire separation assemblies shall not be required when the kitchen is equipped with a *listed* residential range top extinguisher unit or an *approved* commercial kitchen hood with a *listed*, *approved* automatic fire suppression system.
3. The structural members supporting the rated assemblies shall not be required to be fire-resistance rated.

(Amd) **310.3 Residential Group R-2.** Residential Group R-2 occupancies containing *sleeping units* or more than two *dwelling units* where the occupants are primarily permanent in nature, including:

Apartment houses
Congregate living facilities (nontransient) with more than six occupants
Boarding houses (nontransient)

Convents
Dormitories
Emergency services living quarters
Fraternities and sororities
Monasteries
Hotels (nontransient) with more than five guest rooms
Live/work units
Motels (nontransient) with more than five guest rooms
Vacation timeshare properties

(Add) **310.3.1 Residential Group R-2 triplexes and quadruplexes.** *Buildings* that do not contain more than four *dwelling units*, with not more than six lodgers or boarders per *dwelling unit* and that designed in accordance with Appendix S.

(Amd) **310.4 Residential Group R-3.** Residential Group R-3 occupancies where the occupants are primarily permanent in nature and not classified as Group R-1, R-2, R-4 or I, including:

Buildings that do not contain more than two *dwelling units*, with not more than six lodgers or boarders per *dwelling unit*

Care facilities that provide accommodations for five or fewer persons receiving care

Congregate living facilities (nontransient) with six or fewer occupants, where personal care services are not provided

Boarding houses (nontransient)

Convents

Dormitories

Emergency services living quarters

Fraternities and sororities

Monasteries

Congregate living facilities (transient) with six or fewer occupants where *personal care services* are not provided

Boarding houses (transient) with six or fewer occupants where *personal care services* are not provided

(Del) **310.4.1 Care facilities within a dwelling unit.** Delete section.

(Del) **310.4.2 Lodging houses.** Delete section.

(Amd) **310.5 Residential Group R-4.** Residential Group R-4 occupancy shall include *buildings, structures* or portions thereof for more than three but not more than 16 occupants, excluding staff, who reside on a 24-hour basis in a supervised residential environment and receive *custodial care*. *Buildings* of Group R-4 shall be classified as one of the occupancy conditions specified in Section 310.5.1 or 310.5.2. The persons receiving care are capable of self-preservation. Group R-4 occupancies shall meet the requirements for construction as defined for Group R-3, except as otherwise provided for in this code. This group shall include, but not be limited to, the following:

Alcohol and drug centers
Assisted living facilities
Congregate care facilities
Group homes
Halfway houses
Residential board and care *custodial care* facilities
Social rehabilitation facilities

CHAPTER 4 – SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY

(Amd) **403.3.3 Secondary water supply.** An automatic secondary on-site water supply having a capacity not less than the hydraulically calculated sprinkler demand, including the hose stream requirement in accordance with Section 903.3.1.1, shall be provided for *high-rise buildings* assigned to *Seismic Design Category D, E or F* as determined by Section 1613. An additional fire pump shall not be required for the secondary water supply unless needed to provide the minimum design intake pressure at the suction side of the fire pump supplying the *automatic sprinkler system*. The secondary water supply shall have a duration of not less than 30 minutes as determined by the occupancy hazard classification in accordance with Section 903.3.1.1.

(Amd) **404.1 General.** The provisions of Sections 404.1 through 404.11 shall apply to buildings containing atriums. Atriums are not permitted in buildings or structures classified as Group H.

Exceptions:

1. Vertical openings that comply with Sections 712.1.1 through 712.1.3, and Sections 712.1.9 through 712.1.14.
2. The provisions of Section 404 shall not apply to vertical openings in Group R-1 bed and breakfast establishments.

(Add) **406.2.7.1 Group R new construction.** In *buildings* that contain a Group R occupancy, where a *private garage* is attached to a *dwelling unit*, a heat alarm shall be installed in each bay of a garage that is served by an electric vehicle charging system. Where a heat alarm is installed in the garage, the alarm shall be interconnected in such a manner that the actuation of one alarm will activate all of the alarms in the individual *dwelling units*.

(Add) **406.2.7.2 Group R existing construction.** In *buildings* that contain a Group R occupancy, where a *private garage* is attached to a *dwelling unit*, a heat alarm shall be installed in each bay of a garage that is served by an electric vehicle charging system. Existing alarm systems shall be extended for interconnection of heat alarms. If the *dwelling* does not permit an existing alarm system to be extended or does not contain a fire detection system, then one shall be added. Physical interconnection of heat alarms shall not be required where a listed wireless alarm system is installed and all alarms sound upon the activation of one alarm.

(Amd) **406.2.9.2 Public garages.** Appliances located in public garages, motor fuel-dispensing facilities, repair garages or other areas frequented by motor vehicles shall be installed not less than 8 feet (2438 mm) above the floor. Where motor vehicles are capable of passing under an appliance, the appliance shall be installed at the clearances required by the appliance manufacturer and not less than 1 foot (305 mm) higher than the tallest vehicle garage door opening.

Exception: The requirements of this section shall not apply where the appliances are installed in accordance with Section 406.2.9.1 and NFPA 30A, *Code for Motor Fuel Dispensing Facilities and Repair Garages*, and protected from motor vehicle impact in accordance with Section 312 of the International Fire Code portion of the Connecticut State Fire Safety Code.

(Amd) **406.2.9.3 Private garages.** Appliances located in *private garages* and carports shall be installed with a minimum clearance of 6 feet (1829 mm) above the floor.

Exception: The requirements of this section shall not apply where the appliances are installed in accordance with Section 406.2.9.1 and protected from motor vehicle impact in accordance with Section 312 of the International Fire Code portion of the Connecticut State Fire Safety Code.

(Amd) **406.3.2.1 Dwelling unit separation.** The *private garage* shall be separated from the *dwelling unit* and its *attic* area by means of Type X gypsum board, not less than 5/8-inch (15.9 mm) in thickness, applied to the garage side. Garages beneath habitable rooms shall be separated from all habitable rooms above by

not less than a 5/8-inch (15.9 mm) Type X *gypsum board* or equivalent and 5/8-inch (15.9 mm) Type X *gypsum board* applied to structures supporting the separation from habitable rooms above the garage. Door openings between a *private garage* and the *dwelling unit* shall be equipped with either solid wood doors or solid or honeycomb core steel doors not less than 1 $\frac{3}{8}$ inches (34.9 mm) in thickness, or doors in compliance with Section 716.2.2.1 with a *fire protection rating* of not less than 20 minutes. Doors shall be *self-closing* and self-latching.

(Add) **407.12 Laboratories.** In addition to other requirements of this code, laboratories employing quantities of flammable, combustible or *hazardous materials* that exceed exempt amounts shall be protected in accordance with NFPA 99, *Health Care Facilities Code*.

(Add) **407.13 Medical gas systems.** Medical gas systems shall comply with Chapter 12 of the *International Plumbing Code* and Section 5306 of the *International Fire Code*.

(Add) **407.14 Small I-2 homes.** Group I-2 homes that serve 4 to 6 persons who are *incapable of self-preservation* and comply with the specific requirements of Section 407.14.1 shall be permitted to utilize the alternate compliance for the required items listed in Section 407.14.2. Other applicable provisions of the code not addressed in Section 407.14.2 shall also apply.

(Add) **407.14.1 Specific requirements.** Small Group I-2 homes shall comply with Sections 407.14.1.1 through 407.14.1.11.

(Add) **407.14.1.1 Separation of sleeping area.** The sleeping area and its hallway shall be separated from other *habitable spaces* such as living areas and kitchens by a smoke partition in accordance with Section 710 and the doorway to the sleeping area hallway from such spaces shall have a minimum 20-minute *fire resistance* rating and be *self-closing* or automatic-closing.

(Add) **407.14.1.2 Sleeping room walls.** All client sleeping room walls separating the sleeping rooms from the hallways and other habitable or *occupiable spaces* of the *building* shall be constructed as smoke partitions in accordance with Section 710.

(Add) **407.14.1.3 Means of escape.** In addition to the *means of egress* requirements of Chapter 10, the following two requirements shall also be met:

1. All client sleeping rooms shall have an *emergency escape and rescue opening* in accordance with Section 1031.
2. One door shall open directly to the exterior at the *level of exit discharge* from the sleeping area hallway or a client sleeping room.

(Add) **407.14.1.4 Size of doors.** The minimum width of all door openings shall provide a clear width of 34 inches (863 mm). Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees (1.57 rad).

(Add) **407.14.1.5 Door latches.** Every door latch to closets, storage areas and other similar spaces or such areas shall be such that the clients can open the door from inside the space or area.

(Add) **407.14.1.6 Client sleeping room and bathroom doors.** Client sleeping room and bathroom door locks shall be designed to allow the opening of the locked door from the outside by an opening device readily accessible by staff in an emergency.

(Add) **407.14.1.7 Fire alarm and detection systems.** Fire alarm and detection systems shall be installed in accordance with Section 907.2.6.

(Add) **407.14.1.8 Detection.** Smoke detection shall be provided in all sleeping rooms, sleeping room hallways and common spaces except kitchens and bathrooms.

(Add) **407.14.1.9 Carbon monoxide detectors.** Carbon monoxide detectors shall be provided in accordance with Section 915.

(Add) **407.14.1.10 Attic space access.** An opening not less than 36 inches by 36 inches (914 mm by 914 mm) shall be provided to any *attic* area having a clear height of over 30 inches (762 mm). Clear headroom of not less than 30 inches (762 mm) shall be provided at the *attic* space at or above the opening.

Exception: In conversions of a single-family home, a rough framed opening of 30 inches by 22 inches (762 mm by 559 mm) shall be permitted from a hallway or other readily accessible location.

(Add) **407.14.1.11 Standby power.** Standby power shall be provided for small Group I-2 homes in accordance with Section 2702.

(Add) **407.14.2 Alternative compliance.** Where the requirements of Section 407.14.1 are satisfied, small Group I-2 homes shall be permitted to comply with Sections 407.14.2.1 through 407.14.2.3.

(Add) **407.14.2.1 Height, area and construction type.** Height and area shall comply with Chapter 5 and the requirements of Chapter 6, except as provided in Section 407.14.2.1.1.

(Add) **407.14.2.1.1 Type VB construction.** Type VB construction is permitted for a *one-story building* not more than 4,500 square feet (418 m²) in area where the unoccupied *attic* space is protected by automatic sprinklers or provided with heat detection in the *attic* connected to the *building* fire alarm system.

(Add) **407.14.2.2 Automatic fire sprinkler system.** *Buildings* shall be equipped with an NFPA 13R sprinkler system or an NFPA 13D sprinkler system with a 30-minute water supply. All storage, habitable and occupiable rooms, as well as kitchens and closets, shall be sprinklered. Sprinkler valves shall be electrically supervised and connected to the *building* fire alarm system.

Exception: Attached unheated garages used only for storage provided they are separated from the remainder of the structure by 1-hour fire-resistive construction with any openings protected by 45-minute opening protectives. The garage shall also be provided with heat detection connected to the *building* fire alarm system.

(Add) **407.14.2.3 Exterior ramps.** Exterior *ramps* in accordance with Section 1027 shall be permitted for small Group I-2 homes.

(Del) **410.2.6 Scenery.** Delete section.

(Add) **420.12 Triplex and quadruplex homes.** Detached *three- or four-family dwellings (triplexes or quadruplexes)* shall comply with the applicable provisions of the *International Building Code* portion of the Connecticut State Building Code.

Exception: Detached *triplexes* or *quadruplexes*, that are not *townhouses*, not more than three stories above grade plane in height, and with a separate *means of egress* shall be allowed to comply with the alternative requirements as specifically permitted Appendix S.

(Add) **422.8 Laboratories.** In addition to other requirements of this code, laboratories employing quantities of flammable, combustible or *hazardous materials* that exceed exempt amounts shall be protected in accordance with NFPA 99.

(Add) **422.9 Medical gas systems.** Medical gas systems shall comply with Chapter 12 of the *International Plumbing Code* and Section 5306 of the *International Fire Code* portion of the Connecticut State Fire Safety Code.

(Amd) **424.5 Area limits.** Children's *play structures* greater than 600 square feet (56 m²) in area shall comply with Section 411.

(Add) SECTION 429 – GROUP E

(Add) **429.1 Proximity to the level of exit discharge.** Proximity to the *level of exit discharge* shall be provided in accordance with Sections 429.1.1 and 429.1.2. For the purpose of this section, "normally occupied" includes such spaces as libraries, cafeterias, gymnasiums and multipurpose rooms, but does not include administrative offices, healthcare rooms or special one-on-one rooms.

(Add) **429.1.1 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 *stairway* or *ramp* directly from the room dedicated for use by the preschool, kindergarten or first-grade students.

(Add) **429.1.2 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 *stairway* or *ramp* from the room dedicated for use by the second-grade students.

(Add) **429.2 Subdivision of building spaces.** Group E occupancies shall be subdivided into compartments by *smoke barriers* complying with Section 709 where one or both of the following conditions exist:

1. The maximum area of a compartment, including the aggregate area of all floors having a common atmosphere, exceeds 30,000 square feet (2787 m²).
2. The length or width of the occupancy exceeds 300 feet (91 m).

Exceptions:

1. Where all spaces normally subject to student occupancy have not less than one door opening directly to the outside or to an exterior or *exit access* balcony or *corridor* in accordance with Section 1021.
2. *Buildings* protected throughout by an *approved*, supervised automatic fire sprinkler in accordance with Section 903.3.1.1.

(Add) **429.2.1 Area of smoke compartments.** The area of any *smoke compartment* required by Section 427.2 shall not exceed 30,000 square feet (2787 m²) with no dimension exceeding 300 feet (91 m).

(Add) **429.3 Carbon monoxide detectors.** Pursuant to section 29-292 of the Connecticut General Statutes, carbon monoxide detection shall be provided as required by Section 915.

(Add) SECTION 430 –FIXED GUIDEWAYS TRANSIT AND PASSENGER RAIL SYSTEMS

(Add) **430.1 General.** Fixed guideway transit and passenger rail system facilities, including platforms, pedestrian bridges serving platforms and station stops, shall comply with NFPA 130, *Standard for Fixed Guideway Transit and Passenger Rail Systems*. Station buildings shall comply with the provisions of this code.

CHAPTER 5 – GENERAL BUILDING HEIGHTS AND AREAS

(Add) **504.5 Group R-1 bed and breakfast establishments.** The height limitation for existing unsprinklered *buildings* of Type VB construction undergoing a *change of occupancy* from detached one- and two-family *dwellings* to *Group R-1 bed and breakfast establishments* shall be increased by 5 feet (1524 mm) from the value in Table 504.3 and one *story* from the value in Table 504.4 where 1-hour fire-resistance-rated assemblies are constructed between the second and third floors. The structural members supporting the rated assemblies shall not be required to be fire-resistance rated.

CHAPTER 7 – FIRE AND SMOKE PROTECTION FEATURES

(Amd) **708.1 General.** The following wall assemblies shall comply with this section.

1. Separation walls as required by Section 420.2 for Group I-1 and Group R occupancies.
Exception: Group R-1 bed and breakfast establishments.
2. Walls separating tenant spaces in covered and *open mall buildings* as required by Section 402.4.2.1.
3. *Corridor* walls as required by Section 1020.2.
4. Enclosed elevator lobby separation as required by Section 3006.2.
5. Egress balconies as required by Section 1021.2.

(Amd) **712.1.3 Escalator and stairway openings.** Where a building is equipped throughout with an *automatic sprinkler system* in accordance with Section 903.3.1.1, vertical openings for escalators or *stairways* which are not a portion of the *means of egress* shall be permitted where protected in accordance with Section 712.1.3.1 or 712.1.3.2.

(Amd) **712.1.3.1 Opening size.** Protection by a draft curtain and closely spaced sprinklers in accordance with NFPA 13 shall be permitted where the area of the vertical opening between stories does not exceed twice the horizontal projected area of the escalator or *stairway*. In other than Groups B and M, this application is limited to openings that do not connect more than four stories.

CHAPTER 9 – FIRE PROTECTION SYSTEMS

(Amd) **903.1.1 Alternative protection.** In any occupancy where the character of fuel for fire is such that extinguishment or control of fire is accomplished by a type of alternative automatic extinguishing system complying with Section 904, such system shall be permitted in lieu of an *automatic sprinkler system*, and shall be installed in accordance with the applicable standard and *approved* by the code official.

(Amd) **903.2.1.2 Group A-2.** An *automatic sprinkler system* shall be provided for *fire areas* containing Group A-2 occupancies and throughout all stories from the Group A-2 occupancy to and including the levels of *exit discharge* serving that occupancy where one of the following conditions exists:

1. The *fire area* exceeds 5,000 square feet (464.5 m²).

Exception: Existing restaurants in existing nonsprinklered *buildings* that were designated Use Group A-3 under a previous edition of the Connecticut State Building Code that undergo *addition, alteration or change of occupancy* that results in an increase in the restaurant's *fire area*, provided the proposed *fire area* does not exceed 12,000 square feet (1115 m^2).

2. The *fire area* has an *occupant load* of 300 or more or where the *occupant load* exceeds 100 or more in the following assembly occupancies:
 - a. Dance halls
 - b. Discotheques
 - c. Nightclubs
 - d. Assembly occupancies with festival seating
3. The *fire area* is located on a floor other than a *level of exit discharge* serving such occupancies.

(Add) **903.2.3.1 Statutory requirements.** Pursuant to section 29-315 of the Connecticut General Statutes an *automatic sprinkler system* shall be installed in Group E occupancies.

(Amd) **903.2.7 Group M.** An *automatic sprinkler system* shall be provided throughout *buildings* containing a Group M occupancy where one of the following conditions exists:

1. A Group M *fire area* exceeds 12,000 square feet (1115 m^2).
2. A Group M *fire area* is located more than three stories above *grade plane*.
3. The combined area of all Group M *fire areas* on all floors, including any *mezzanines*, exceeds 24,000 square feet (2230 m^2).
4. Throughout stories below the *level of exit discharge* where such stories have an area exceeding 2,500 square feet (232 m^2) and are used for the sale, storage or handling of combustible goods or merchandise.
5. In Group M occupancies storage rooms, regardless of size, containing consumer fireworks in a new or existing permanent store shall be protected with an *automatic sprinkler system* installed in accordance with NFPA 13 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 (101.9 m^3), including packaging. Such storage shall be segregated into areas of 1,200 cubic feet (34 m^3) or less and separated by a minimum of 4 feet (1.2 m) of clear space.
6. In Group M occupancies, the total quantity of sparklers and fountains on hand either displayed or in storage shall not exceed a gross weight of 227.2 lbs. (103 kg), including packaging or a gross weight of 1,000 lbs. (454 kg) in a building protected throughout with an approved *automatic sprinkler system* installed in accordance with NFPA 13. A quantity in excess of these amounts is subject to approval by the State Fire Marshal.

(Amd) **903.2.8 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*, occupancy group designation or by an *addition*. The use of any exceptions in this section shall also comply with the *means of egress* requirements of Chapter 10.

Exceptions:

1. *Group R-1 bed and breakfast establishments.*
2. In existing buildings four stories or less in height containing not more than four *dwelling units* where *dwelling units* are added to an existing Group R use that does not involve a physical increase in the height or *building area* and where each *dwelling unit* has at least two *means of egress* that meet any of the following:
 - 2.1. An *exit door* directly to the exterior at a *level of exit discharge*.
 - 2.2. Access to an exterior *egress stair* serving a maximum of two *dwelling units*.
 - 2.3. Direct access to an interior *stair* serving a maximum of two *dwelling units* 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 *dwelling* or Group R-3 to Group R-2 occupancy 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 1-hour *fire-resistance rating*.
5. In a *building* with a maximum of two *dwelling units* where:
 - 5.1. The *exit(s)* and *dwelling units* are separated from any nonresidential occupancy in accordance with Section 508.
 - 5.2. The nonresidential occupancy is protected by an automatic fire detection and alarm system with notification in the *dwelling unit(s)*.
 - 5.3. Each *dwelling unit* has at least two *means of egress* that meets any of the following:
 - 5.3.1. An *exit* door directly to the exterior at the *level of exit discharge*.
 - 5.3.2. Access to an exterior egress *stair* serving a maximum of two *dwelling units*.
 - 5.3.3. Direct independent access to an interior *stair* serving a maximum of two *dwelling units* and completely separated from all other portions of the *building* with a minimum 1-hour *fire-resistance-rated fire barriers*.

(Amd) **903.2.8.3 Care facilities.** An *automatic sprinkler system* in accordance with Section 903.3.1.3 shall be permitted in a Group R-4 care facility with 16 or fewer residents when all of the following conditions are met:

1. The *facility* is not in a *building* containing mixed occupancies,
2. The *building* in which the *facility* is located is limited to two stories above *grade plane* and 40 feet (12.2 m) in height,
3. The *automatic sprinkler system* is provided with a minimum 30-minute water supply,
4. All habitable, enclosed usable areas and closets shall be sprinklered,
5. Facilities with more than 8 residents shall be treated as two-family *dwellings* with regard to water supply, 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 *automatic 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.

(Amd) **903.2.11 Specific building areas and hazards.** In all occupancies other than Group U, an *automatic sprinkler system* shall be installed for building design or hazards in the locations set forth in Sections 903.2.11.1 through 903.2.11.7.

(Add) **903.2.11.7 Additional statutory requirements.** Pursuant to section 29-315 of the Connecticut General Statutes, an automatic fire extinguishing systems shall be installed in any *building* or *structure* to be built more than four stories tall and used for human occupancy and in other occupancies as required by the State Fire Marshal in the interest of safety because of special occupancy hazards.

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

1. Generator and transformer rooms separated from the remainder of the *building* by walls and floor/ceiling assemblies having a fire-resistance-rating of not less than 2 hours.
2. Fire service access elevator machine rooms and machinery spaces.

3. Machine rooms, machinery spaces, control rooms and control spaces associated with occupant evacuation elevators designed in accordance with Section 3008.

(Add) **903.3.1.1.4 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 Section 712.1.3.1.

(Add) **903.3.5.3 Water authority approval.** Unless served by a private well of sufficient capacity or other *approved* source, domestic service shall be permitted to provide the water supply for the *automatic sprinkler system* only upon written approval of the water authority supplying such domestic service.

(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) (689.5 kPa) at the topmost outlet of each riser while flowing the minimum quantities of water specified based upon a pressure of 150 psi (1,034.2 kPa) 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 75 feet (22.9 m) above the lowest level of fire department vehicle access, Class I standpipes shall have an automatic or manual-wet supply.

(Del) SECTION 906 - PORTABLE FIRE EXTINGUISHERS.

Delete this section in its entirety and replace with the following:

(Add) SECTION 906 - PORTABLE FIRE EXTINGUISHERS

(Add) **906.1 Where required.** Portable fire extinguishers shall be provided in occupancies and locations as required by the Connecticut State Fire Safety Code.

(Add) **906.2 Maintenance.** Portable fire extinguishers shall be maintained in accordance with the Connecticut State Fire Safety Code.

(Amd) **907.1.1 Construction documents.** *Construction documents* for fire alarm systems shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in detail that it will conform to the provisions of this code and the Connecticut State Fire Safety Code, as determined by the code official.

(Del) **907.2.7.1.1 Occupant notification.** Delete section.

(Amd) **907.2.8.2 Automatic smoke detection system.** An automatic smoke detection system that activates the occupant notification system in accordance with Section 907.5 shall be installed throughout all interior *corridors* serving *dwelling units* or *sleeping units*.

Exceptions:

1. An automatic smoke detection system is not required in *buildings* that do not have interior *corridors* serving *dwelling units* or *sleeping units* and where each *dwelling unit* or *sleeping unit* has a *means of egress* door opening directly to an *exit access* that leads directly to an *exit*.
2. An automatic smoke detection system is not required in *Group R-1 bed and breakfast establishments* (see Section 907.2.11.1.1).

(Amd) **907.2.9.1 Manual fire alarm system.** A manual fire alarm system that activates the occupant notification system in accordance with Section 907.5 shall be installed in Group R-2 occupancies where:

1. Any *dwelling unit* or *sleeping unit* is located three or more stories above the lowest *level of exit discharge*;

2. Any *dwelling unit* or *sleeping unit* is located more than one *story* below the highest *level of exit discharge* of *exits* serving the *dwelling unit* or *sleeping unit*; or
3. The *building* contains more than 11 *dwelling units* or *sleeping units*.

Exceptions:

1. A fire alarm system is not required in *buildings* not more than two stories in height where all *dwelling units* or *sleeping units* and contiguous *attic* and *crawl spaces* are separated from each other and public or common areas by at least 1-hour *fire partitions* and each *dwelling unit* or *sleeping unit* has an *exit* directly to a *public way*, *egress exit*, *court* or *yard*.
2. *Manual fire alarm boxes* are not required where the *building* is equipped throughout with an *automatic sprinkler system* in accordance with Section 903.3.1.1 or 903.3.1.2 and the occupant notification appliances will automatically activate throughout the notification *zones* upon a sprinkler water flow.
3. A fire alarm system is not required in *buildings* that do not have interior *corridors* serving *dwelling units* or *sleeping units* and that are protected by an *approved automatic sprinkler system* installed in accordance with Section 903.3.1.1 or 903.3.1.2, provided that *dwelling units* or *sleeping units* either have a *means of egress* door opening directly to an exterior *exit access* that leads directly to the *exits* or are served by open-ended *corridors* designed in accordance with Section 1027.6, Exception 3.

(Amd) **907.2.9.3 Group R-2 college and university buildings and school buildings through the 12th grade.** An automatic smoke detection system that activates the occupant notification system in accordance with Section 907.5 shall be installed in Group R-2 occupancies operated by a college or university, or operated by schools through the 12th grade, for student or staff housing in all of the following locations:

1. Common spaces outside of *dwelling units* and *sleeping units*.
2. Laundry rooms, mechanical equipment rooms and storage rooms.
3. All interior *corridors* serving *sleeping units* or *dwelling units*.

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

Required smoke alarms in *dwelling units* and *sleeping units* in Group R-2 occupancies operated by a college or university, or schools through the 12th grade, for student or staff housing shall be interconnected with the fire alarm system in accordance with NFPA 72.

(Add) **907.2.11.1.1 Group R-1 bed and breakfast establishments.** An *approved* household fire warning system in accordance with the requirements of NFPA 72, consisting of a control unit with *smoke detectors*, a *manual fire alarm box* on each floor and occupant notification, shall be installed in all *Group R-1 bed and breakfast establishments*. A *heat detector* shall be installed in the kitchen.

(Amd) **907.2.11.2 Groups R-2, R-3, R-4 and I-1.** *Single- or multiple-station smoke alarms* shall be installed and maintained in Groups R-2, R-3, R-4 and I-1 at all of the following locations:

1. On the ceiling or wall outside of each separate sleeping area in the immediate vicinity of bedrooms.
2. In each room used for sleeping purposes.
3. In each *story* within a *dwelling unit*, including *basements* but not including *crawl spaces* and *uninhabitable attics*. In *dwellings* or *dwelling units* with split levels and without an intervening door between the adjacent levels, a *smoke alarm* installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level.
4. In Group R-2 multistory buildings see Section 907.2.11.2.1.

(Add) **907.2.11.2.1 Group R-2.** Where devices are required and a separate building fire alarm system is installed meeting the requirements of NFPA 72, all initiation and notification devices including capability for future visible alarm notification shall be part of the fire alarm system and installed in accordance with Section 907.5.2.3.3.

(Add) **907.2.11.2.2 Group R-4.** In Group R-4 occupancies, *single- or multiple-station smoke alarms* shall be installed in living rooms, dens, day rooms and similar spaces in addition to the locations required by Section 907.2.11.2.

(Add) **907.2.11.2.3 Alterations and additions.** *Alterations or additions* requiring a permit in Group I-4 and Group E day care facilities, Group I-1 or R occupancy, or when one or more sleeping rooms are added or created in existing *dwelling units*, the entire *dwelling unit* or *building* shall be provided with smoke detectors located as required for new *buildings*. Such smoke detectors within existing spaces may be battery operated and are not required to be dual-powered or interconnected unless other remodeling considerations require removal of wall and ceiling coverings which would facilitate concealed interconnected wiring.

(Add) **907.2.11.2.3.1 During construction Group R.** Whenever a *dwelling*, *dwelling unit*, or *sleeping unit* in a Group R occupancy is occupied during interior *alterations* or *additions* requiring a building permit, the temporary installation of battery-operated smoke alarms shall be required in the vicinity of such *alterations* or *additions* for the duration of construction activities. A combined smoke and carbon monoxide alarm may be installed to comply with Section 915.8 and this section. Pursuant to section 29-315b of the Connecticut General Statutes, a single-family or two-family *dwelling* shall also comply with this section.

(Add) **907.2.11.2.4 Group I-4 and Group E day care facilities.** *Single- or multiple-station smoke detectors* shall be installed and maintained in all day care facilities in the following locations:

1. On each *story* in front of doors to the *stairways*;
2. In the *corridors* of all floors occupied by the day care facilities; and
3. In lounges, recreation areas and sleeping rooms in the day care facilities.

Exception: Day care facilities housed in one room.

(Del) **907.6.6.3 Termination of monitoring service.** Delete section.

(Add) **907.6.6.3 Automatic telephone-dialing devices.** Automatic telephone-dialing devices used to transmit an emergency alarm shall comply with the requirements of subsection (c) of section 28-25b of the Connecticut General Statutes.

(Del) **907.8 Inspection, testing and maintenance.** Delete section.

(Amd) **912.2 Location.** With respect to hydrants, driveways, *buildings* and landscaping, fire department connections shall be so located that fire apparatus and hoses connected to supply the system will not obstruct access to the buildings for other fire apparatus. The location of fire department connections shall be *approved* by the *fire code official* in conjunction with the fire chief.

(Amd) **912.2.1 Visible location.** Fire department connections shall be located on the street side of *buildings* or facing *approved* fire apparatus access roads, fully visible and recognizable from the street, fire apparatus access road or nearest point of fire department vehicle access or as otherwise *approved* by the *fire code official* in conjunction with the fire chief.

(Amd) **912.2.2 Location signage.** On *buildings*, wherever the fire department connection is not visible to approaching fire apparatus, the fire department connection shall be indicated by an *approved* sign mounted on the street front or on the side of the *building*. Such sign shall have the letters "FDC" not less than 6

inches (152 mm) high and words in letters not less than 2 inches (51 mm) high or an arrow to indicate the location. Such signs shall be subject to the approval of the *fire code official* in conjunction with the fire chief.

(Add) **913.6 Electric fire pumps.** *Buildings* provided with standby electrical power for the purpose of continuing operations or occupancy shall provide standby power in accordance with Article 702 of NFPA 70, *National Electrical Code*, for any electric fire pump installed to provide an adequate water supply or minimum operating pressure to a required *automatic sprinkler system*.

(Amd) **915.1 General.** Carbon monoxide detectors shall be installed in new *buildings* and occupancies in accordance with Section 915.1.1. Carbon monoxide detection shall be installed in *existing buildings* in accordance with Section 1103.9 of the Connecticut Fire Safety Code. When *alterations* or *additions* requiring a *permit* occur in existing *buildings*, carbon monoxide detection shall be provided in accordance with Section 915.7.

Exception: Carbon monoxide detection is not required in Group S, Group F and Group U occupancies that are not normally occupied.

(Amd) **915.2.3 Group E occupancies.** A carbon monoxide system that uses carbon monoxide detectors shall be provided in the locations specified in Sections 915.2.3.1 and 915.2.3.2.

Exception: Group E rooms with cooking appliances, laboratories and maintenance spaces.

(Add) **915.2.3.1. Locations.** Carbon monoxide detectors shall be located as follows:

1. On the ceilings of rooms containing permanently installed fuel-burning heating equipment.
2. Centrally located within the first room or area served by the first air supply register by each main duct leaving a fuel-burning, forced-air furnace.

(Add) **915.2.3.2 Signage.** A sign shall be provided at all entrances to such rooms indicating that carbon monoxide detectors are located within the space.

(Amd) **915.2.4 CO-producing forced-air furnace.** Carbon monoxide detection and warning equipment shall be provided in *dwelling units* and *sleeping units* served by a fuel-burning, forced-air furnace.

Exception: Carbon monoxide detection and warning equipment shall not be required in *dwelling units* and *sleeping units* where carbon monoxide detection is provided in the first room or area served by each main duct leaving the furnace, and the carbon monoxide alarm signals are automatically transmitted to an *approved* location.

(Amd) **915.2.5 Private garages.** Carbon monoxide detection and warning equipment shall be provided in *dwelling units* and *sleeping units* in buildings with attached private garages.

Exceptions:

1. Where there are no communicating openings between the private garage and the *dwelling unit* or *sleeping unit*.
2. In *dwelling units* and *sleeping units* located more than one story above or below a private garage.
3. Where the private garage connects to the building through an *open-ended corridor*.
4. Where carbon monoxide detection and warning equipment is provided in an *approved* location between openings to a private garage and *dwelling units* or *sleeping units*.

(Add) **915.2.7 CO-producing appliances or fireplaces outside of dwelling units and sleeping units.** Carbon monoxide detection and warning equipment shall be provided in *dwelling units* and *sleeping units* located in *buildings* that contain CO-producing appliances or fireplaces.

Exceptions:

1. Carbon monoxide detection and warning equipment shall not be required in *dwelling units* and *sleeping units* without communicating openings between the CO-producing appliance or fireplace and the *dwelling unit* or *sleeping unit*.
2. Carbon monoxide detection and warning equipment shall not be required in *dwelling units* and *sleeping units* where carbon monoxide detection and warning equipment is provided in one of the following locations:
 - 2.1. In an *approved* location between the CO-producing appliance or fireplace and the *dwelling unit* or *sleeping unit*.
 - 2.2. On the ceiling of the room containing the CO-producing appliance or fireplace.

(Add) **915.5.6 Group E alarm notification.** Carbon monoxide detectors shall be connected to the *building* fire alarm signaling system as a separate *zone* or *zones*. Such alarms shall activate a supervisory signal at the main control unit and any remote annunciators. Such alarms shall not activate the *building* evacuation alarm.

(Amd) **915.6 Maintenance.** Carbon monoxide alarms and carbon monoxide detection systems shall be maintained in accordance with NFPA 72. Carbon monoxide alarms and carbon monoxide detectors that become inoperable, begin producing end-of-life signals or have reached the manufacturer's replacement date shall be replaced.

(Add) **915.7 Alterations and additions.** When *alterations* or *additions* requiring a *permit* occur to *buildings* with Group R-3 and R-4 occupancies and to *Group R-1 bed and breakfast establishments*, or when one or more sleeping rooms are added or created in such occupancies, the entire occupancy shall be provided with carbon monoxide detectors located as required for new construction. The carbon monoxide detectors shall have a power source in accordance with Section 915.4.1.

When *alterations* or *additions* requiring a *permit* occur to *buildings* with Group I-1, I-2, I-4, R-1 other than bed and breakfast establishments, R-2 and E, or when one or more sleeping rooms are added or created in such occupancies, only the work area shall be provided with carbon monoxide detectors located as required for new construction. The carbon monoxide detectors shall have a power source in accordance with Section 915.4.1. For the purpose of this section, "work area" shall have the same meaning as defined in the *International Existing Building Code* portion of the Connecticut State Building Code.

Exceptions:

1. The carbon monoxide detectors may be battery operated or plug-in and are not required to be interconnected when other remodeling considerations do not require the removal of the appropriate wall or ceiling coverings to facilitate concealed interconnected wiring.
2. *Alterations* to the *exterior surfaces* of existing *buildings* 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.
3. Carbon monoxide detectors shall not be required in *buildings* not containing a fuel-burning appliance, *fireplace* or attached garage.

(Add) **915.8 During construction.** Pursuant to section 29-315b of the Connecticut General Statutes, whenever a single-family or two-family *dwelling* is occupied during interior *alterations* or *additions* requiring a building permit where a fuel-burning appliance, fireplace or attached garage exists, the temporary installation of battery-operated carbon monoxide alarms shall be required in the vicinity of such *alterations* or *additions* for the duration of construction activities. Combined smoke and carbon monoxide alarms may be installed to comply with Section 907.2.11.2.3.1 and this section.

CHAPTER 10 – MEANS OF EGRESS

(Add) **1001.3 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 Connecticut State Fire Safety and the Connecticut State Fire Prevention Codes for the proposed occupancy.

(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 is prohibited.

(Amd) **1004.5 Areas without fixed seating.** The number of occupants shall be computed at the rate of one occupant per unit of area as prescribed in Table 1004.5. For areas without *fixed seating*, the *occupant load* shall be not less than the number determined by dividing the floor area under consideration by the *occupant load* factor assigned to the function of the space as set forth in Table 1004.5. Where an intended function is not listed in Table 1004.5, the *building official* shall establish a function based on a listed function that most nearly resembles the intended function.

(Amd) **1005.3.1 Stairways.** The capacity, in inches, of *means of egress stairways* shall be calculated by multiplying the *occupant load* served by such *stairways* by a *means of egress* capacity factor of 0.3 inch (7.6 mm) per occupant. Where *stairways* serve more than one *story*, only the *occupant load* of each *story* considered individually shall be used in calculating the required capacity of the *stairways* serving that *story*.

Exceptions:

1. Facilities with *smoke-protected assembly seating* shall be permitted to use the capacity factors in Table 1030.6.2 indicated for stepped *aisles* for *exit access* or *exit stairways* where the entire path for *means of egress* from the seating to the *exit discharge* is provided with a smoke control system complying with Section 909.
2. Facilities with *open-air assembly seating* shall be permitted to use the capacity factors in Section 1030.6.3 indicated for stepped *aisles* for *exit access* or *exit stairways* where the entire path for *means of egress* from the seating to the *exit discharge* is open to the outdoors.

(Amd) **1005.3.2 Other egress components.** The capacity, in inches, of *means of egress* components other than *stairways* shall be calculated by multiplying the *occupant load* served by such component by a *means of egress* capacity factor of 0.2 inch (5.1 mm) per occupant.

Exceptions:

1. Facilities with *smoke-protected assembly seating* shall be permitted to use the capacity factors in Table 1030.6.2 indicated for level or ramped *aisles* for *means of egress* components other than *stairways* where the entire path for *means of egress* from the seating to the *exit discharge* is provided with a smoke control system complying with Section 909.
2. Facilities with *open-air assembly seating* shall be permitted to use the capacity factors in Section 1030.6.3 indicated for level or ramped *aisles* for *means of egress* components other than *stairways* where the entire path for *means of egress* from the seating to the *exit discharge* is open to the outdoors.

(Add) **1006.2.2.7 Group I-4 day care means of egress.** Group I-4 facilities, rooms or spaces where care is provided for more than 10 children who are 3 years of age or younger shall have access to not less than two *exits* or *exit access doorways*.

(Amd) **1006.3.4 Single exits.** A single *exit* or access to a single *exit* shall be permitted from any *story* or *occupiable roof* where one of the following conditions exists:

1. The *occupant load*, number of *dwelling units* and *exit access travel distance* do not exceed the values in Table 1006.3.4(1) or 1006.3.4(2).

2. Rooms, areas and spaces complying with Section 1006.2.1 with *exits* that discharge directly to the exterior at the *level of exit discharge*, are permitted to have one *exit* or access to a single *exit*.
3. Parking garages where vehicles are mechanically parked shall be permitted to have one *exit* or access to a single *exit*.
4. *Buildings of Group R-1 bed and breakfast establishments*, Group R-3 and R-4 occupancies shall be permitted to have one *exit* or access to a single *exit*.
5. Individual single-story or multistory *dwelling units* shall be permitted to have a single *exit* or access to a single *exit* from the *dwelling unit* provided that both of the following criteria are met:
 - 5.1. The *dwelling unit* complies with Section 1006.2.1 as a space with one *means of egress*.
 - 5.2. Either the *exit* from the *dwelling unit* discharges directly to the exterior at the *level of exit discharge*, or the *exit access* outside the *dwelling unit*'s entrance door provides access to not less than two *approved independent exits*.

(Amd) **TABLE 1006.3.4(1) STORIES AND OCCUPIABLE ROOFS WITH ONE EXIT OR ACCESS TO ONE EXIT FOR R-2 OCCUPANCIES**

| STORY OR OCCUPIABLE ROOF | OCCUPANCY | MAXIMUM NUMBER OF DWELLING UNITS | MAXIMUM EXIT ACCESS TRAVEL DISTANCE |
|---|---------------------------|----------------------------------|-------------------------------------|
| Basement, first, second, third, or fourth story above grade plane and occupiable roofs over the first, second, or third story above grade plane | R-2 ^{a, b, c, d} | 4 dwelling units | 125 feet |
| Fifth story above grade plane and higher | NP | NA | NA |

For SI: 1 foot = 304.8 mm.

NP = Not Permitted.

NA = Not Applicable.

- a. Buildings classified as Group R-2 equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2 and provided with emergency escape and rescue openings in accordance with Section 1031.
- b. This table is used for Group R-2 occupancies consisting of dwelling units. For Group R-2 occupancies consisting of sleeping units, use Table 1006.3.4(2).
- c. This table is for occupiable roofs accessed through and serving individual dwelling units in Group R-2 occupancies. For Group R-2 occupancies with occupiable roofs that are not accessed through and serving individual units, use Table 1006.3.4(2).
- d. 4-story buildings and 3-story buildings with an occupiable roof above the third story shall also comply with Section 1006.3.4.2.

(Add) **1006.3.4.2 Single exit four-story buildings with Group R-2 dwelling units.** Four-story buildings with a single exit for Group R-2 dwelling units shall comply with Table 1006.3.4(1) and all of the following:

1. The net floor area of each floor shall not exceed 4,000 square feet (372 m²).
2. Openings to the interior exit stairway enclosure shall be limited to those required for exit access into the enclosure from normally occupied spaces, those required for egress from the enclosure, and openings to the exterior. Elevators shall not open into the interior exit stairway enclosure.
3. A manual fire alarm system and automatic smoke detection system that activates the occupant notification system in accordance with Section 907.5 shall be provided. Smoke detectors shall be located in common spaces outside of dwelling units, including, but not limited to, gathering

areas, laundry rooms, mechanical equipment rooms, storage rooms, interior corridors, interior exit stairways, and exit passageways.

4. Regardless of the stairway construction type, automatic sprinkler locations in interior exit stairways shall comply with the requirements of NFPA 13 for combustible stairways.
5. Electrical receptacles shall be prohibited in an interior exit stairway.
6. Stairways shall have a clear width of 48 inches (1219 mm) minimum between handrails.

(Amd) **1008.2 Illumination required.** The *means of egress* serving a room or space, including the *exit discharge*, shall be illuminated at all times the *building* served by the *means of egress* is occupied.

Exceptions:

1. Occupancies in Group U.
2. Self-service storage units 400 square feet (37.2 m^2) or less in area and accessed directly from the exterior of the *building*.
3. Aisle *accessways* in Group A.
4. Within *dwelling units* and *sleeping units* in Groups R-1, R-2 and R-3.
5. Within *sleeping units* of Group I occupancies.
6. In *Group R-1 bed and breakfast establishments* when illumination of the *means of egress* is initiated upon initiation of a fire alarm.

(Add) **1008.2.5 Arrangement of illumination.** Required illumination shall be arranged so that the failure of any single lamp does not result in an illumination level of less than 0.2 foot-candle (2.15 lux) at the floor level.

(Amd) **1008.3 Illumination required by an emergency electrical system.** An emergency electrical system shall be provided to automatically illuminate the following areas in the event of a power supply failure:

1. In rooms or spaces that require two or more *exits* or access to *exits*:
 - 1.1. *Aisles*.
 - 1.2. *Corridors*.
 - 1.3. *Exit access stairways and ramps*.
2. In *buildings* that require two or more *exits* or access to *exits*:
 - 2.1. *Interior exit access stairways and ramps*.
 - 2.2. *Interior and exterior exit stairways and ramps*.
 - 2.3. *Exit passageways*.
 - 2.4. Vestibules and areas on the level of discharge used for *exit discharge* in accordance with Section 1028.2.
 - 2.5. Exterior landings as required by Section 1010.1.5 for *exit* doorways that lead directly to the *exit discharge*.
3. In other rooms and spaces:
 - 3.1. Electrical equipment rooms.
 - 3.2. *Fire command centers*.
 - 3.3. Fire pump rooms.
 - 3.4. Generator rooms.
 - 3.5. Public restrooms with an area greater than 300 square feet (27.87 m^2).
 - 3.6. *Means of egress* components, other than those within sleeping rooms, of *Group R-1 bed and breakfast establishments*.

(Add) **1008.3.3 Activation.** 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.

(Add) **1010.1.1.2 Bed and breakfast establishments.** Doors within and accessing *Group R-1 bed and breakfast establishments* shall have a minimum clear width of 28 inches (711 mm). Doors within and accessing bathrooms shall have a minimum clear width of 24 inches (610 mm).

(Amd) **1010.1.2.1 Direction of swing.** Side-hinged swinging doors, pivoted doors and balanced doors shall swing in the direction of egress travel where serving a room or area containing an *occupant* load of 50 or more persons, an *exit* enclosure (unless the door serves an individual living unit that opens directly into an *exit* enclosure) or a Group H occupancy.

(Add) **1010.2.1.1 Bathroom doors.** In Group R-4 occupancies, Group I-2 child care facilities and Group I-4 day care facilities, bathroom doors that latch in the closed position shall be openable from inside the bathroom and shall be capable of being unlocked from the ingress side.

(Amd) **1011.5.2 Riser height and tread depth.** *Stair* riser heights shall be 7 inches (178 mm) maximum and 4 inches (102 mm) minimum. The riser height shall be measured vertically between the *nosings* of adjacent treads or between the *stairway* landing and the adjacent tread. Rectangular tread depth shall be 11 inches (279 mm) minimum measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's *nosing*. *Winder* treads shall have a minimum tread depth of 11 inches (279 mm) between the vertical planes of the foremost projection of adjacent treads at the intersections with the walkline and a minimum tread depth of 10 inches (254 mm) within the clear width of the *stair*.

Exceptions:

1. Alternating tread devices in accordance with Section 1011.14.
2. Ships ladders in accordance with Section 1011.15.
3. Spiral *stairways* in accordance with Section 1011.10.
4. Aisle *stairs* in assembly seating areas where the *stair* pitch or slope is set, for sightline reasons, by the slope of the adjacent seating area in accordance with Section 1030.14.2.
5. In *Group R-1 bed and breakfast establishments*; in Group R-3 occupancies; within *dwelling units* in Group R-2 occupancies not required by Chapter 11 to be *Accessible* or Type A *dwelling* or *sleeping units*; and in Group U occupancies that are accessory to Group R-3 occupancy, or accessory to individual *dwelling units* in Group R-2 occupancies; the maximum riser height shall be 8 $\frac{1}{4}$ inches (209.5 mm) and the minimum tread depth shall be 9 inches (229 mm); the minimum *winder* tread depth at the walkline shall be 10 inches (254 mm); and the minimum *winder* tread depth shall be 6 inches (152 mm). A *nosing* not less than $\frac{3}{4}$ inch (19.1 mm) but not more than 1 $\frac{1}{4}$ inches (32 mm) shall be provided on *stairways* with solid risers where the tread depth is less than 11 inches (279 mm).
6. The riser height and tread depth of existing *stairways* in *buildings* undergoing *addition, alteration, repair, relocation or change of occupancy* that involve the existing *stairways* shall be permitted to remain, provided the greatest riser height within any *flight of stairs* shall not exceed the smallest by 3/8 inch (9.5 mm) and the greatest tread depth within any *flight of stairs* shall not exceed the smallest by 3/8 inch (9.5 mm).
7. See Section 503.1 of the *International Existing Building Code* for the replacement of existing *stairways*.
8. In Group I-3 facilities, *stairways* providing access to guard towers, observation stations and control rooms, not more than 250 square feet (23 m²) in area, shall be permitted to have a maximum riser height of 8 inches (203 mm) and a minimum tread depth of 9 inches (229 mm).

(Amd) **1011.5.3 Winder treads.** *Winder* treads are not permitted in *means of egress stairways* except within a *dwelling unit* and within existing detached one- and two-family *dwellings* undergoing a *change of occupancy* to *Group R-1 bed and breakfast establishments*.

Exceptions:

1. Curved *stairways* in accordance with Section 1011.9.
2. *Spiral stairways* in accordance with Section 1011.10.

(Amd) **1011.7.2 Outdoor conditions.** Outdoor *stairways* and outdoor approaches to *stairways* shall be designed so that water will not accumulate on walking surfaces. In other than occupancies in Group R-3 and occupancies in Group U that are accessory to an occupancy in Group R-3, treads, platforms and landings that are part of exterior *stairways* shall be protected to prevent the accumulation of snow and ice.

(Amd) **1011.11 Handrails.** *Flights* of *stairways* shall have *handrails* on each side and shall comply with Section 1014. Where glass is used to provide the *handrail*, the *handrail* shall comply with Section 2407.

Exceptions:

1. *Flights* of *stairways* within *dwelling units*, *Group R-1 bed and breakfast establishments* and *flights* of *spiral stairways* are permitted to have a *handrail* on one side only.
2. Decks, patios and walkways that have a single change in elevation where the landing depth on each side of the change in elevation is greater than what is required for a landing do not require *handrails*.
3. In Group R-3 occupancies, a change in elevation consisting of a single riser at an entrance or egress door does not require *handrails*.
4. Changes in room floor elevations of three or fewer risers within *dwelling units* and *sleeping units* in *Group R-1 bed and breakfast establishments* and Groups R-2 and R-3 occupancies do not require *handrails*.
5. Where a platform lift is in a stationary position and the floor of the platform lift serves as the upper landing of a *stairway*, *handrails* shall not be required on the *stairway*, provided that all of the following criteria are met:
 - 5.1. The *stairway* contains not more than two risers.
 - 5.2. A handhold, positioned horizontally or vertically, is located on one side of the *stairway* adjacent to the top landing.
 - 5.3. The handhold is located not less than 34 inches (864 mm) and not more than 42 inches (1067 mm) above the bottom landing of the *stairway*.
 - 5.4. The handhold gripping surface complies with Section 1014.4, and is not less than 4.5 inches (114 mm) in length.

(Add) **1013.1.1 Accessible exits.** Where *exit* signs are required by Section 1013.1 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 (152 mm) 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 1013.

(Amd) **1013.2 Low-level exit signs.** Where *exit* signs are required from a room or space in Group R-1 occupancies, Group I-2 occupancies and Group R-2 dormitory occupancies by Section 1013.1, additional low-level *exit* signs shall be provided at exit doors within *exit access corridors* serving *guestrooms* in Group R-1 occupancies, patient and client sleeping areas of Group I-2 occupancies, and sleeping areas and *dwelling units* in Group R-2 dormitory occupancies and shall comply with Section 1013.5.

The bottom of the sign shall be not less than 10 inches (254 mm) nor more than 12 inches (305 mm) above the floor level. The sign shall be flush mounted to the door or wall on the same plane as the door. Where mounted on the wall, the edge of the sign shall be within 4 inches (102 mm) of the door frame on the latch side.

Exceptions:

1. *Group R-1 bed and breakfast establishments*.

2. Low-level *exit* signs are not required in Group R-1, Group I-2 occupancies and Group R-2 dormitory occupancies when the *building* is equipped throughout with an *automatic sprinkler system* installed in accordance with Section 903.3.1.1 or 903.3.1.2.

(Amd) **1014.10 Intermediate handrails.** *Stairways* shall have intermediate *handrails* located in such a manner that all portions of the *stairway* width exceeding 75 inches (1905 mm) required for egress capacity are within 30 inches (762 mm) of a *handrail*. On monumental *stairs*, *handrails* shall be located along the most direct path of egress travel.

(Amd) **1015.3 Height.** Required *guards* shall be not less than 42 inches (1067 mm) high, measured vertically as follows:

1. From the adjacent walking surfaces.
2. On *stairways* and stepped *aisles*, from the line connecting the *nosings*.
3. On *ramps* and ramped *aisles*, from the *ramp* surface at the *guard*.

Exceptions:

1. For occupancies in Group R-3 not more than three stories above grade in height and within individual *dwelling units* in occupancies in Group R-2 not more than three stories above grade in height with separate *means of egress*, required *guards* shall be not less than 36 inches (914 mm) in height measured vertically above the adjacent walking surfaces.
2. For occupancies in Groups R-2 and R-3, within the interior conditioned space of individual *dwelling units*, where the open-sided walking surface is located not more than 25 feet (7.62 meters) measured vertically to the floor or walking surface below, required *guards* shall not be less than 36 inches (914 mm) in height measured vertically above the adjacent walking surface.
3. For occupancies in Group R-3, and within individual *dwelling units* in occupancies in Group R-2, *guards* on the open sides of *stairs* shall have a height not less than 34 inches (864 mm) measured vertically from a line connecting the *nosings*.
4. For occupancies in *Group R-1 bed and breakfast establishments*, in Group R-3, and within individual *dwelling units* in occupancies in Group R-2, where the top of the *guard* also serves as a *handrail* on the open sides of *stairs*, the top of the *guard* shall be not less than 34 inches (864 mm) and not more than 38 inches (965 mm) measured vertically from a line connecting the *nosings*.
5. For occupancies in *Group R-1 bed and breakfast establishments*, level *guards* shall be not less than 36 inches (914 mm) high, measured vertically above the adjacent walking surface.
6. The *guard* height in assembly seating areas shall comply with Section 1030.17 as applicable.
7. Along *alternating tread devices* and ships ladders, *guards* whose top rail also serves as a *handrail* shall have height not less than 30 inches (762 mm) and not more than 34 inches (864 mm), measured vertically from a line connecting the leading edge of the treads.
8. In Group F occupancies where *exit access stairways* serve fewer than three stories and such *stairways* are not open to the public, and where the top of the *guard* also serves as a *handrail*, the top of the *guard* shall be not less than 34 inches (864 mm) and not more than 38 inches (965 mm) measured vertically from a line connecting the *nosings*.

(Amd) **1015.4 Opening limitations.** Required *guards* shall not have openings which allow passage of a sphere 4 inches (102 mm) in diameter from the walking surface to the required *guard* height.

Exceptions:

1. From a height of 36 inches (914 mm) to 42 inches (1067 mm), *guards* shall not have openings which allow passage of a sphere 4 $\frac{3}{8}$ inches (111 mm) in diameter.
2. The triangular openings at the open side of a *stair*, formed by the riser, tread and bottom rail shall not allow passage of a sphere 6 inches (152 mm) in diameter.

3. At elevated walking surfaces for access to and use of electrical, mechanical or plumbing systems or equipment, *guards* shall not have openings which allow passage of a sphere 21 inches (533 mm) in diameter.
4. In areas that are not open to the public within occupancies in Group I-3, F, H or S, and for alternating tread devices and ship's ladders, *guards* shall not have openings which allow passage of a sphere 21 inches (533 mm) in diameter.
5. In assembly seating areas, *guards* required at the end of aisles in accordance with Section 1030.17.4 shall not have openings which allow passage of a sphere 4 inches in diameter (102 mm) up to a height of 26 inches (660 mm). From a height of 26 inches (660 mm) to 42 inches (1067 mm) above the adjacent walking surfaces, *guards* shall not have openings which allow passage of a sphere 8 inches (203 mm) in diameter.
6. Within individual *dwelling units* and *sleeping units* in Group R-2 and R-3 occupancies, *guards* on the open sides of *stairs* shall not have openings which allow passage of a sphere 4 $\frac{3}{8}$ inches (111 mm) in diameter.
7. In *Group R-1 bed and breakfast establishments*, *guards* shall have balusters or ornamental patterns such that a 6-inch-diameter (152 mm) sphere cannot pass through any opening.

(Add) **1015.9 Retaining walls.** Retaining walls where the difference in height between the finished grade at the top of the wall and the finished grade at the bottom of the wall is greater than 4 feet (1219 mm) shall be provided with *guards* complying with Sections 1015.3, 1015.4 and 1607.9 when a walking surface, parking lot or driveway is located closer than 2 feet (610 mm) from the edge of the top of the retaining wall. For the purpose of this section, grass, planting beds or landscaped areas shall not be considered a walking surface.

(Amd) **1019.3 Occupancies other than Groups I-2 and I-3.** In other than Group I-2 and I-3 occupancies, floor openings containing *exit access stairways* or *ramps* that do not comply with one of the conditions listed in this section shall be enclosed with a *shaft* enclosure constructed in accordance with Section 713.

1. *Exit access stairways* and *ramps* in *buildings* equipped throughout with an *automatic sprinkler system* in accordance with Section 903.3 and within a two-story opening complying with Section 712.1.9. If the *exit access stairways* or *ramps* are open to corridors, the opening shall be protected in accordance with the method detailed for protection of vertical openings in NFPA 13.
2. In Group E occupancies, *exit access stairways* and *ramps* within a two-story opening shall comply with all of the following:
 - 2.1 The *exit access stairway* and *ramp* is in a *building* equipped throughout with an *automatic sprinkler system* in accordance with Section 903.3.1.1.
 - 2.2 The *exit access stairway* and *ramp* is protected in accordance with Section 712.1.9 of this code.
 - 2.3 The *exit access stairway* and *ramp* is not open to a *corridor*.
3. In Group R-1, R-2 or R-3 occupancies, *exit access stairways* and *ramps* connecting four stories or less serving and contained within a single residential *dwelling unit* or *sleeping unit* or *live/work unit*.
4. *Exit access stairways* serving and contained within a Group R-3 congregate residence or a Group R-4 facility are not required to be enclosed.
5. *Exit access stairways* connecting the first and second floors of *Group R-1 bed and breakfast establishments*. *Stairways* connecting the second and third floors in such occupancies shall be enclosed with fire separation assemblies having a *fire-resistance rating* of not less than 1 hour. *Stairways* connecting the basement and the first floor occupancies shall be enclosed with *fire partitions* having a *fire-resistance rating* of not less than $\frac{1}{2}$ hour with 20-minute fire-resistance-rated door assemblies. Fire-resistance assemblies at *stairways* in *Group R-1 bed and breakfast establishments* shall not be required to be supported by fire-resistance-rated construction.

6. *Exit access stairways and ramps* within an atrium complying with the provisions of Section 404.
7. *Exit access stairways and ramps* in *open parking garages* that serve only the open parking garage.
8. *Exit access stairways and ramps* serving smoke-protected or open-air assembly seating complying with the *exit access* travel distance requirements of Section 1030.7.
9. *Exit access stairways and ramps* between the balcony, gallery or press box and the main assembly floor in occupancies such as theaters, places of religious worship, auditoriums and sport facilities.
10. *Stairways* serving outdoor facilities where all portions of the *means of egress* are essentially open to the outside, including exterior *exit access stairways or ramps* between *occupiable roofs*.
11. *Exit access stairways* serving *mezzanines* complying with the provisions of Section 505.

(Amd) **TABLE 1020.2 CORRIDOR FIRE-RESISTANCE RATING**

Amend final row as follows:

| | | | |
|-----|-----|----------------|---|
| I-4 | All | 1 ^e | 0 |
|-----|-----|----------------|---|

Add new footnote as follows:

- e. For Group I-4 day care facilities that satisfy Section 903.2.6, Exception 2, a corridor fire-resistance rating of zero (0) is permitted.

(Add) **1020.2.2 Group R-1 bed and breakfast establishments.** A *fire-resistance rating* is not required for *corridors* in *Group R-1 bed and breakfast establishments*. Doors leading from *guestrooms* into *corridors* or hallways in *Group R-1 bed and breakfast establishments* shall be equipped with *self-closing* devices.

(Add) **1022.3 Group M occupancies.** In mercantile occupancies other than bulk merchandising retail *buildings*, if the only means of customer entrance is through one *exterior wall* of a *building*, one-half of the required egress width from the *street floor* shall be located in such wall. For the purpose of this section, bulk merchandising retail *building* is defined as a *building* exceeding 12,000 square feet (1115 m²) in area in which the sales area includes the storage of combustible materials on pallets, in solid piles or in racks in excess of 12 feet (3658 mm) in storage height.

(Add) **1028.4.1 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) **1030.2 Assembly main exit.** Pursuant to section 29-381a of the Connecticut General Statutes, in a *building*, room or space used for assembly purposes and provided with a single main entrance/emergency *exit*, the main *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*. This section applies to 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*. Where the *building* is classified as a Group A occupancy, the main *exit* shall front on at least one street or an unoccupied space of not less than 10 feet (3048 mm) in width that adjoins a street or *public way*. In a *building*, room or space used for assembly purposes where there is no well-defined main entrance/*exit* or where multiple main entrances/emergency *exits* are provided, *exits* shall be permitted to be distributed around the perimeter of the *building* provided that the total width of egress is not less than 100 percent of the required width.

(Amd) **1031.2 Where required.** In addition to the *means of egress* required by this chapter, *emergency escape and rescue openings* shall be provided in the locations described in Sections 1031.2.1 through 1031.2.6. Such openings shall open directly into a *public way* or to a *yard* or *court* that opens to a *public way*, or to an egress balcony that leads to a *public way*.

Exception: Storm shelters are not required to comply with this section where the shelter is constructed in accordance with ICC 500.

(Add) **1031.2.2 Basements.** *Basements* and sleeping rooms below the fourth *story above grade plane* shall have not fewer than one *emergency escape and rescue opening* in accordance with this section. Where *basements* contain one or more sleeping rooms, an *emergency escape and rescue opening* shall be required in each sleeping room, but shall not be required in adjoining areas of the *basement*.

Exceptions:

1. *Basements* with a ceiling height of less than 80 inches (2032 mm) shall not be required to have *emergency escape and rescue openings*.
2. *Emergency escape and rescue openings* are not required from *basements* or sleeping rooms that have an *exit* door or *exit access door* that opens directly into a *public way* or to a *yard*, *court* or exterior egress balcony that leads to a *public way*.
3. *Basements* without *habitable spaces* and having not more than 200 square feet (18.6 m²) in floor area shall not be required to have *emergency escape and rescue openings*.
4. Within individual *dwelling* and *sleeping units* in Groups R-2 and R-3, where the building is equipped throughout with an *automatic sprinkler system* installed in accordance with Section 903.3.1.1, 903.3.1.2 or 903.3.1.3, sleeping rooms in *basements* shall not be required to have *emergency escape and rescue openings* provided that the *basement* has one of the following:
 - 4.1. One *means of egress* and one *emergency escape and rescue opening*.
 - 4.2. Two *means of egress*.

(Add) **1031.2.3 Group E.** *Emergency escape and rescue openings* shall be provided in every room or space greater than 250 square feet (23.22 m²) used for classroom or educational purposes or normally subject to student occupancy.

Exceptions:

1. *Buildings* protected throughout by an *approved automatic sprinkler system* in accordance with Section 903.3.1.1.
2. Rooms or spaces that have a door leading directly to the outside of the *building*.

(Add) **1031.2.4 Group R-2.** *Emergency escape and rescue openings* shall be provided in stories with only one *exit* or access to only one *exit* as permitted by Tables 1006.3.4(1) and 1006.3.4(2) or utilizing an exception to 903.2.8.

(Add) **1031.2.5 Groups R-3 and R-4.** *Emergency escape and rescue openings* shall be provided in all Group R-3 and R-4 occupancies.

(Add) **1031.2.6 Group I-4.** *Emergency escape and rescue openings* shall be provided in every room or space greater than 250 square feet (23.22 m²) normally subject to client occupancy.

Exceptions:

1. *Buildings* protected throughout by an *approved automatic sprinkler system* in accordance with Section 903.3.1.1.
2. Rooms or spaces that have a door leading directly to the outside of the *building*.

(Amd) **1031.3.2 Minimum dimensions.** The minimum net clear opening height dimension shall be 24 inches (610 mm). The minimum net clear opening width dimension shall be 20 inches (508 mm). The net clear opening dimensions shall be the result of normal operation of the opening.

Exception: In existing *buildings* undergoing a *change of occupancy* to *Group R-1 bed and breakfast establishments*, the net clear opening dimensions may be obtained by removal of the sash without the use of a key or tool provided that the instructions for the removal of the sash are clearly posted on the inside of the *guestroom* door.

(Amd) **1031.3.3 Maximum height from floor.** *Emergency escape and rescue openings* shall have the bottom of the clear opening not greater than 44 inches (1118 mm) measured from the floor.

Exception: In an existing *building* undergoing a change of use, the 44-inch (1118 mm) maximum height may 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. Any *stairs* or steps shall comply with Section 1011.5.

CHAPTER 11 – ACCESSIBILITY

(Amd) **1103.2.11 Group R-1 bed and breakfast establishments or R-3.** Buildings of *Group R-1 bed and breakfast establishments* are not required to be *accessible*. Buildings of *Group R-3 congregate living facilities (transient)* or *boarding houses (transient)* containing not more than five *sleeping units* for rent or hire that are also occupied as the residence of the proprietor are not required to comply with this chapter.

(Add) **1103.2.15 Statutory requirements.** Pursuant to section 29-274 of the Connecticut General Statutes, the following are additional exceptions to requirements for accessibility:

1. Accessibility shall not be required in renovations, *additions* or *alterations* to stories in existing *buildings* above the *street floor* being converted to Group B provided each *story* above the *street floor* contains less than 3,000 square feet (278.7 m²) of total gross area per floor and the *street floor* is renovated or altered to provide accessibility to persons with disabilities. This provision shall not apply to stories above the *street floor* that include the offices of health care providers, municipal or state agencies, or passenger transportation facilities or offices located in airport terminals.
2. *Buildings* and structures of any occupancy consisting of three stories or less not otherwise exempted from the requirements of this chapter shall be exempt if each *story* above and below the *street floor* contains less than 3,000 square feet (278.7 m²) of total gross area and the *street floor* is designed, renovated or altered to provide accessibility to persons with disabilities. This provision shall not apply to stories above or below the *street floor* that include the offices of health care providers, municipal or state agencies or passenger transportation facilities or offices located in airport terminals or mercantile facilities having five or more tenant spaces.

(Add) **1103.2.16 Mezzanines.** *Mezzanines* having fewer than 3,000 square feet (278.7 m²) of *gross floor area*, either singly or in the aggregate for multiple *mezzanines* on any floor, are not required to be *accessible* and are not required to be located on an *accessible route*, provided the goods and services available on any *mezzanine* shall be available in *accessible* areas.

(Amd) **1104.1 Site arrival points.** At least one *accessible route* within the *site* shall be provided from public transportation stops, *accessible parking* and *accessible* passenger loading zones, and public streets or sidewalks to the *accessible building* entrance served. Where an *accessible route* must cross speed bumps or vehicle wheel stops, there shall be a minimum clear passage width of not less than 32 inches (813 mm).

Exception: Other than in *buildings* or facilities containing or serving *Type B units*, an *accessible route* shall not be required between *site* arrival points and the *building* or *facility* entrance if the only means of access between them is a vehicular way not providing for pedestrian access.

(Amd) **1104.4 Multilevel buildings and facilities.** At least one *accessible route* shall connect each *accessible story*, *mezzanine* and *occupiable roofs* in multilevel *buildings* and facilities.

Exceptions:

1. An *accessible route* is not required to stories or *occupiable roofs*, or *mezzanines* that comply with Sections 1103.2.15 and 1103.2.16, respectively.
2. Stories, *mezzanines* or *occupiable roofs* that do not contain *accessible* elements or other spaces as determined by Section 1108 or 1109 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* or *mezzanine* with an *occupant load* of five or fewer persons that does not contain public use space, that *story* or *mezzanine* shall not be required to be connected by an *accessible route* to the *story* above or below.

(Add) **1104.4.1 Elevators in Group R-2.** Pursuant to section 19a-357 of the Connecticut General Statutes, no building or portion thereof which is rented, leased, let or hired out to be occupied, or is arranged or designed to be occupied, or is occupied, as the home or residence of three or more families, living independently of each other, shall be over four stories in height unless it is equipped with a passenger elevator.

(Add) **1105.1.1.1 Automatic entrances.** Where controls for automatic doors are provided, they shall be in an *accessible* location within 10 feet (3.05 m) of the entrance.

(Add) **1105.1.1.2 Primary entrances.** Pursuant to section 29-270a of the Connecticut General Statutes, at least one primary entrance to any *covered mall building*, anchor store or retail business (Group M) with more than 50,000 square feet (4,645.2 m²) of floor space shall be equipped with an automatically operating door or doors in sequence, installed in accordance with applicable provisions of this code.

Exception: Nothing in this section shall require the installation of an automatically operating door in a primary entrance which is open and unobstructed by any door during the hours that the retail business is open to the public.

(Add) **1106.2.1 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 persons who are blind and persons with disabilities shall be as near as possible to a *building* entrance or walkway and shall be 15 feet (4.6 m) wide, including 5 feet (1.5 m) of cross hatch.

(Amd) **1106.3 Groups R-2, R-3 and R-4.** *Accessible* parking spaces shall be provided in Group R-2, R-3 and R-4 occupancies in accordance with the greatest number of parking spaces of any of the following:

1. In Group R-2, R-3 and R-4 occupancies that are required to have *Accessible*, Type A or Type B *dwelling units* or *sleeping units*, at least two percent, but not less than one, of each type of parking space provided shall be *accessible*.
2. Where at least one parking space is provided for each *dwelling unit* or *sleeping unit*, at least one *accessible* parking space shall be provided for each *Accessible* and *Type A unit*.

Exception: The number of *accessible* parking spaces for Type A units shall be permitted to be calculated on the basis of the minimum number of Type A units being two percent of the total number of *dwelling units*.

(Amd) **1106.6 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.

Exception: In Group U *private garages* that serve R-2 and R-3 occupancies, van-accessible spaces shall be permitted to have vehicular routes, entrances, parking spaces and access aisles with a minimum vertical clearance of 7 feet (2134 mm).

(Add) **1106.6.1 Van accessible parking spaces.** Pursuant to subsection (h) of section 14-253a of the Connecticut General Statutes, parking spaces for passenger vans designated for persons who are blind and persons with disabilities shall be as near as possible to a *building* entrance or walkway and shall be 16 feet (4877 mm) wide, including 8 feet (2438 mm) of cross hatch.

(Add) **1106.6.1.1 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 (2489 mm) vertical clearance at a primary entrance and along the route to at least two parking spaces for passenger vans that conform to Section 1106.6.1 and that have 8 feet 2 inches (2489 mm) of vertical clearance.

(Amd) **1106.7.1 Parking located beneath a building.** Where parking is provided beneath a *building*, *accessible* parking spaces shall be provided 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*.

(Amd) **1108.6.2.2.1 Type A units.** In Group R-2 occupancies containing more than 20 *dwelling units* or *sleeping units*, at least 10 percent of the units shall be a *Type A unit* in accordance with ICC A117.1. 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. Where two or more *Type A units* are provided, at least 5 percent but not less than one *Type A unit* shall include a bathroom with a shower complying with ICC A117.1 for *Type A units*.

Exceptions:

1. The number of *Type A units* is permitted to be reduced in accordance with Section 1108.7.
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*.

(Amd) **1108.7.2 Multistory units.** A multistory *dwelling unit* 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 entry to the unit, shall comply with the requirements for a *Type B unit* and, where provided within the unit, provisions for living, sleeping, eating, cooking and a complete toilet and bathing *facility* shall be 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 entry 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) **1110.2 Toilet and bathing facilities.** Each toilet room and bathing room shall be *accessible*. Where a floor level is not required to be connected by an *accessible route*, the only toilet rooms or bathing rooms provided within the facility shall not be located on the inaccessible floor. Except as provided for in Sections 1110.2.4 and 1110.2.5, at least one of each type of fixture, element, control or dispenser in each *accessible* toilet room and bathing room shall be *accessible*.

Exceptions:

1. Toilet rooms or bathing rooms accessed only through a private office, not for *common* or *public use* and intended for use by a single occupant, shall be permitted to comply with the specific exceptions in ICC A117.1.
2. This section is not applicable to toilet and bathing rooms located within *dwelling units* or *sleeping units* that are not required to be *accessible* by Section 1108.
3. Where multiple single-user toilet rooms or bathing rooms are clustered at a single location, at least 25 percent but not less than one room for each use at each cluster shall be *accessible*.
4. Where no more than one urinal is provided in a toilet room or bathing room, the urinal is not required to be *accessible*.

5. Toilet rooms or bathing rooms that are part of critical care or intensive care patient sleeping rooms serving *Accessible units* are not required to be *accessible*.
6. Toilet rooms or bathing rooms designed for bariatrics patients are not required to comply with the toilet room and bathing room requirement in ICC A117.1. The *sleeping units* served by bariatrics toilet or bathing rooms shall not count toward the required number of *Accessible sleeping units*.
7. Where permitted in Section 1108, in toilet rooms or bathrooms serving *Accessible units*, water closets designed for assisted toileting shall comply with Section 1110.2.2.
8. Where permitted in Section 1108, in bathrooms serving *Accessible units*, showers designed for assisted bathing shall comply with Section 1110.2.3.
9. Where toilet facilities are primarily for children's use, required *accessible* water closets, toilet compartments and lavatories shall be permitted to comply with the children's provisions of ICC A117.1.

(Amd) **1110.2.1.2 Family or assisted-use toilet rooms.** Family or assisted-use toilet rooms shall include only one water closet and only one lavatory and *diaper changing table*. A family or assisted-use bathing room in accordance with Section 1110.2.1.3 shall be considered to be a family or assisted-use toilet room.

Exception: The following additional plumbing fixtures shall be permitted in a family or assisted-use toilet room:

1. A urinal.
2. A child-height water closet.
3. A child-height lavatory.
4. An adult changing station also used for bathing.

(Add) **1110.2.4.1 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 (152 mm) from the hinge side on the compartment or room side of the door. This handle shall meet the requirements of Section 404.2.6 of ICC A117.1.

Exceptions:

1. Compartments or rooms with *self-closing*, self-latching doors.
2. Doors that swing into the compartment or room.

(Add) **1110.2.4.2 Single-occupancy toilet.** Required *accessible* toilet rooms designed for single occupancy in other than Group R shall meet the requirements of ICC A117.1. Each such room shall contain both toilet and lavatory, shall have a lever handle privacy lockset and shall have an emergency call system that actuates a visible and audible alarm in a normally occupied area. An alarm pull switch, identified with emergency instruction, shall be provided within 3 feet (914 mm) of the water closet with a pull cord extending to within 12 inches (305 mm) of the floor.

(Add) **1110.11.1 Limited-use/limited-application elevators.** Limited-use/limited-application elevators shall be permitted to be installed in new construction in the same locations specified in Section 1110.11. Limited-use/limited-application elevators shall be installed in accordance with the Connecticut Safety Code for Elevators and Escalators, adopted pursuant to section 29-192 of the Connecticut General Statutes and with provisions of this code adopted pursuant to section 29-200 of the Connecticut General Statutes.

(Add) **1110.20 Automatic teller machines and fare machines.** Where automatic teller machines or self-service fare vending, collection or adjustment machines are provided for pedestrian use at any site, not fewer than one machine of each type at each location where such machines are provided shall be *accessible*. Within such sites containing automatic teller machines or self-service fare vending, collection or adjustment machines, where bins are provided for envelopes, wastepaper or other purposes, not fewer than one of each type shall be *accessible*.

(Amd) **1112.1 Signs.** Required *accessible* elements shall be identified by the International Symbol of Accessibility at the following locations:

1. *Accessible* parking spaces as required by Section 1106. Pursuant to subsection (h) of section 14-253a of the Connecticut General Statutes, such spaces shall be designated by above-grade signs with white lettering against a blue background and shall bear the words “RESERVED Parking Permit Required” and “Violators will be fined” in addition to the International Symbol of Accessibility. When such a sign is replaced, repaired or erected, it shall indicate the minimum fine for a violation of subsection (l) of section 14-253a of the Connecticut General Statutes. Such indicator may be in the form of a notice affixed to such sign. Newly installed signs shall be 60 inches (1525 mm) minimum above the floor or ground of the parking space, measured to the bottom of the sign.
2. *Accessible* passenger loading zones.
3. *Accessible* toilet or bathing rooms where not all toilet or bathing rooms are *accessible*.
4. *Accessible* entrances where not all entrances are *accessible*.
5. *Accessible* check-out aisles where not all aisles are *accessible*. The sign, where provided, shall be above the check-out aisle in the same location as the check-out aisle number or type of check-out identification.
6. Family or assisted-use toilet and bathing rooms and single-occupancy toilet rooms.
7. *Accessible* dressing, fitting and locker rooms where not all such rooms are *accessible*.
8. *Accessible* areas of refuge required by Section 1009.9.
9. Exterior areas for assisted rescue in accordance with Section 1009.9.
10. In recreational facilities, lockers that are required to be *accessible* in accordance with Section 1110.17.
11. *Accessible* portable toilet and bathing units.
12. *Accessible means of egress stairways*.
13. *Accessible* grade-level exits required by Section 1013.1.1.

CHAPTER 12 – INTERIOR ENVIRONMENT

(Amd) **1208.2 Minimum ceiling heights.** *Occupiable spaces, habitable spaces and corridors shall have a ceiling height of not less than 7 feet 6 inches (2286 mm) above the finished floor. Bathrooms, toilet rooms, kitchens, storage rooms and laundry rooms shall have a ceiling height of not less than 7 feet (2134 mm) above the finished floor.*

Exceptions:

1. In one- and two- family *dwellings*, beams and girders spaced apart not less than 36 inches (914 mm) in clear finished width shall have a ceiling height of not less than 6 feet 6 inches (1981 mm) from the finished floor.
2. If any room in a building has a sloped ceiling, the prescribed ceiling height for the room is required in one-half the area thereof. Any portion of the room measuring less than 5 feet (1524 mm) from the finished floor to the ceiling shall not be included in any computation of the minimum area thereof.
3. The height of *mezzanines* and spaces below *mezzanines* shall be in accordance with Section 505.2.
4. Corridors contained within a *dwelling unit* or *sleeping unit* in a Group R occupancy shall have a ceiling height of not less than 7 feet (2134 mm) above the finished floor.

CHAPTER 15 – ROOF ASSEMBLIES AND ROOFTOP STRUCTURES

(Amd) **1507.11.1 Slope.** Modified bitumen roofing shall have a design slope of a minimum of one-fourth unit vertical in 12 units horizontal (2-percent slope) for drainage.

Exception: A minimum design slope of one-eighth unit vertical in 12 units horizontal shall be permitted when the following two conditions are met:

1. The roofing material is warranted or guaranteed by both the roofing material manufacturer and the roofing installer for the proposed slope.
2. The *registered design professional* responsible for the design of the roof structure certifies that the roof structure is designed to support all *loads*, including any additional *loads* resultant to the reduced slope.

(Amd) **1507.12.1 Slope.** Thermoset single-ply membrane roofs shall have a design slope of a minimum of one-fourth unit vertical in 12 units horizontal (2-percent slope) for drainage.

Exception: A minimum design slope of one-eighth unit vertical in 12 units horizontal shall be permitted when the following two conditions are met:

1. The roofing material is warranted/guaranteed by both the roofing material manufacturer and the roofing installer for the proposed slope.
2. The *registered design professional* responsible for the design of the roof structure certifies that the roof structure is designed to support all *loads*, including any additional *loads* resultant to the reduced slope.

(Amd) **1507.13.1 Slope.** Thermoplastic single-ply membrane roofs shall have a design slope of a minimum of one-fourth unit vertical in 12 units horizontal (2-percent slope) for drainage.

Exception: A minimum design slope of one-eighth unit vertical in 12 units horizontal shall be permitted when the following two conditions are met:

1. The roofing material is warranted/guaranteed by both the roofing material manufacturer and the roofing installer for the proposed slope.
2. The *registered design professional* responsible for the design of the roof structure certifies that the roof structure is designed to support all *loads*, including any additional *loads* resultant to the reduced slope.

CHAPTER 16 – STRUCTURAL DESIGN

(Amd) **1602.1 Notations.** Amend the following items only:

p_g = Ground snow load determined using the ASCE Ground Snow Load Geodatabase which is available at <https://ascehazardtool.org>.

V = Basic wind speed, V , mph (m/s) determined using the ASCE Wind Design Geodatabase which is available at <https://ascehazardtool.org>.

V_T = Tornado speed, mph (m/s) determined using the ASCE Tornado Design Geodatabase which is available at <https://ascehazardtool.org>.

(Amd) **1603.1.3 Roof snow load data.** The ground snow *load*, P_g , shall be indicated. In areas where the ground snow *load*, P_g , exceeds 15 pounds per square foot (psf) (0.72 kN/m^2), the following additional information shall also be provided, regardless of whether snow *loads* govern the design of the roof:

1. Allowable stress design ground snow load, $p_{g(asd)}$.
2. Flat-roof snow *load*, p_f .
3. Snow exposure factor, C_e .
4. Risk category.
5. Thermal factor, C_t .
6. Slope factor(s), C_s .

7. Drift surcharge *load(s)*, p_d , where the sum of p_d and p_f exceeds 30 psf (1.44 kN/m²).
8. Width of snow drift(s), w .
9. Winter wind parameter for snow drift, W_2
10. Existing roofs. Confirmation that existing adjacent lower roofs within 20 feet of the proposed *structure* or *addition* comply with Section 1608.4.

(Amd) **1603.1.6 Geotechnical information.** The following geotechnical information, as applicable, shall be shown on the construction documents:

1. Design load-bearing values of soils and required bearing layer.
2. Design capacities (axial, including uplift, and lateral) and required bearing layer for deep foundations.
3. Design load-bearing capacity of *rigid inclusions* calculations, where installed.

(Add) **1607.3.3 Group R-1 bed and breakfast establishments.** *Live loads* shall comply with the requirements of Table 1607.1 for one- and two-family *dwellings*.

(Add) **1608.1.1 Flat roof snow loads.** The flat roof snow *load*, p_f , shall be calculated in accordance with Section 7.3 of ASCE 7. The calculated value of p_f shall not be less than 43 pounds per square foot and shall be used in the calculation of sloped roof snow loads in accordance with Section 7.4 of ASCE 7. The provisions of Section 7.3.3 of ASCE 7 shall not be used. The flat roof snow *load*, p_f , is a reliability-based (strength design) snow load.

(Add) **1608.1.2 Sloped roof snow loads.** The sloped roof snow *load*, p_s , shall be calculated in accordance with Section 7.4 of ASCE 7. The value of p_f used in such calculation shall not be less than 43 pounds per square foot stipulated in Section 1608.1.1, except where permitted in Section 1608.1.3. Values for “unobstructed slippery roofs” in Figure 7.4-1 of ASCE 7 shall not be utilized, unless *approved* by the *building official*.

(Add) **1608.1.3 Partial loading, unbalanced roof snow loads, drifts on lower roofs, roof projections and parapets, and snow sliding.** Calculations for partial loading, unbalanced roof snow loads, drifts on lower roofs, roof projections and parapets, and snow sliding shall be in accordance with Sections 7.5, 7.6, 7.7, 7.8 and 7.9 of ASCE 7, without the 43-pounds-per-square-foot minimum requirement of p_f stipulated in Sections 1608.1.1 and 1608.1.2. The minimum snow load outside snow drift regions shall not be less than the balanced flat roof or sloped roof snow load with the 43-pounds-per-square-foot minimum requirement of p_f stipulated in Sections 1608.1.1 and 1608.1.2.

(Amd) **1608.2 Ground snow loads.** The ground snow *loads* to be used in determining the design snow *loads* for roofs shall be determined in accordance with the reliability-targeted (strength based) ground snow load values determined using the Ground Snow Load Geodatabase which is available at <https://ascehazardtool.org>.

(Add) **1608.4 Snow loads on adjacent buildings.** If a new *structure* or *addition* is located within 20 feet (6.1 m) of an adjacent *existing building*, and the new *structure* or *addition* exceeds the height of the adjacent *existing building*, a statement from a professional engineer confirming compliance with one or more of the following shall be provided:

1. No additional snow drift loads will be induced on the roof of the adjacent existing building.
2. Any additional snow drift loads induced on the roof of the adjacent existing building are less than the magnitude of the snow drift loads that would have already existed on the roof of the adjacent existing building.
3. The demand-capacity ratio of the roof of the adjacent existing building does not exceed 1.05 when analyzed for the additional snow drift loads.

Snow drift loads shall be derived in accordance with Section 7.7 of ASCE 7.

(Del) **Table 1608.2.** Delete table.

(Del) **Figures 1608.2 (1) through 1608.2 (4).** Delete figures.

(Amd) **1608.2.1 Ground snow conversion.** Where required, the ground snow loads, p_g , shall be converted to *allowable stress design* ground snow loads, $p_{g(asd)}$, using Equation 16-17.

$$p_{g(asd)} = 0.7 p_g \quad (\text{Equation 16-17})$$

where:

$p_{g(asd)}$ = *Allowable stress design* ground snow load.

p_g = Ground snow load determined using the Ground Snow Load Geodatabase which is available at <https://ascehazardtool.org>.

(Amd) **1609.1.1 Determination of wind loads.** Wind *loads* on every *building* or *structure* shall be determined in accordance with Chapters 26 to 30 of ASCE 7. The type of opening protection required and the exposure category for a *site* are permitted to be determined in accordance with Section 1609 or ASCE 7. The basic wind speed, V , shall be determined in accordance with Section 1609. Wind shall be assumed to come from any horizontal direction and wind pressures shall be assumed to act normal to the surface considered.

Exceptions:

1. Subject to the limitations of Section 1609.1.1.1, the provisions of ICC 600 shall be permitted for applicable Group R-2 and R-3 *buildings*.
2. Subject to the limitations of Section 1609.1.1.1, residential *structures* using the provisions of AWC WFCM.
3. Subject to the limitations of Section 1609.1.1.1, residential *structures* using the provisions of AISI S230.
4. Designs using NAAMM FP 1001.
5. Designs using TIA-222 for antenna-supporting *structures* and antennas, provided that the horizontal extent of Topographic Category 2 escarpments in Section 2.6.6.2 of TIA-222 shall be 16 times the height of the escarpment.
6. Wind tunnel tests in accordance with ASCE 49 and Sections 31.4 and 31.7 of ASCE 7.
7. *Temporary structures* complying with Section 3103.6.1.2.

Basic wind speeds, V , shall be converted in accordance with Section 1609.3.1 to *allowable stress design* wind speeds, V_{asd} , when the provisions of the standards referenced in Exceptions 4 and 5 are used.

(Amd) **1609.3 Basic design wind speed.** The *basic wind speed*, V , in mph, for the determination of the wind *loads* shall be determined using the ASCE Wind Design Geodatabase which is available at <https://ascehazardtool.org>.

(Del) **Figures 1609.3(1) through 1609.3(4)** Delete figures.

(Amd) **1609.3.1 Wind speed conversion.** Where required, the basic wind speeds shall be converted to *allowable stress design* wind speeds, V_{asd} , using Table 1609.3.1 or Equation 16-18.

$$V_{asd} = V\sqrt{0.6} \quad (\text{Equation 16-18})$$

where:

V_{asd} = Allowable stress design wind speed applicable to methods specified in Exceptions 4 and 5 of Section 1609.1.1.

V = Basic wind speeds determined using the ASCE Wind Design Geodatabase which is available at <https://ascehazardtool.org>.

(Amd) **1609.5 Tornado loads.** The design and construction of *Risk Category III and IV buildings* and other *structures* shall be in accordance with Chapter 32 of ASCE 7, except as modified by this code. The tornado speed, V_T , in mph, for the determination of the *loads* shall be determined using the ASCE Tornado Design Geodatabase which is available at <https://ascehazardtool.org>.

(Del) **Figure 1609.5.** Delete figure.

(Add) **1610.1.1 Seismic lateral earth pressure.** Seismic lateral earth pressure loads on basement walls and retaining walls for *structures* in Seismic Design Categories D through F shall be in accordance with ASCE 7. Seismic lateral earth pressure loads on basement and retaining walls in Seismic Design Categories A through C need not be considered.

(Amd) **1611.1 Design rain loads.** Each portion of a roof shall be designed to sustain the *load* of rainwater as per the requirements of Chapter 8 of ASCE 7. Rain loads shall be based on the summation of the static head, d_s , hydraulic head, d_h , and ponding head, d_p , using Equation 16-20. The hydraulic head shall be based on hydraulic test data or hydraulic calculations assuming a flow rate corresponding to a rainfall intensity equal to or greater than the 15-minute duration storm with return period given in Table 1611.1. Rainfall intensity shall be determined in inches per hour for the risk categories given in Table 1611.1. The ponding head shall be based on structural analysis as the depth of water due to deflections of the roof subjected to unfactored rain load and unfactored *dead load*.

$$R = 5.2(d_s + d_h) \quad (\text{Equation 16-20})$$

For SI: $R = 0.0098(d_s + d_h + d_p)$

where:

d_h = Hydraulic head equal to the depth of water on the undeflected roof above the inlet of the secondary drainage system for structural loading (SDSL) required to achieve the design flow, in inches (mm).

d_p = Ponding head equal to the depth of water due to deflections of the roof subjected to unfactored rain load and unfactored *dead load*, in inches (mm).

d_s = Static head equal to the depth of water on the undeflected roof up to the inlet of the secondary drainage system for structural loading (SDSL), in inches (mm).

R = Rain load, in pounds per square foot (kN/m^2).

SDSL is the roof drainage system through which water is drained from the roof when the drainage systems listed in ASCE 7 Section 8.2 (a) through (d) are blocked or not working.

(Amd) **TABLE 1611.1**
DESIGN 15-MINUTE DURATION STORM RAINFALL INTENSITY BY RISK CATEGORY

| RISK CATEGORY | DESIGN STORM RETURN PERIOD | RAINFALL INTENSITY (inches/hour) |
|---------------|----------------------------|-------------------------------------|
| I & II | 100 years | 6.50 |
| III | 200 years | 7.25 |
| IV | 500 years | 8.50 |

(Amd) **1612.3 Establishment of flood hazard areas.** *Flood hazard areas* shall be established locally by methods lawfully adopted by the town, city or borough.

(Amd) **1613.2 Determination of seismic design category.**

Structures shall be assigned to a *seismic design category* determined using the ASCE Seismic Design Geodatabase which is available at <https://ascehazardtool.org>.

(Del) **Figures 1613.2 (1) through 1613.2 (7).** Delete all figures

CHAPTER 17 – SPECIAL INSPECTIONS AND TESTS

(Add) **1703.7 Special Inspections Coordinator.** The *registered design professional in responsible charge* of the design of each component or system subject to *special inspections* shall act as the *special inspections coordinator* for *special inspections* of those components or systems designed by such *registered design professional*.

Exceptions:

1. If the *registered design professional in responsible charge* of the design of a component or system subject to *special inspections* is unwilling or unable to assume the duties of *special inspections coordinator*, the owner or the owner's authorized agent shall designate a substitute *registered design professional* who shall perform the duties required of the *special inspections coordinator*. The *building official* shall be notified in writing by the owner or the owner's authorized agent if the *special inspections coordinator* is changed or is unable to continue to perform the duties.
2. If the *registered design professional in responsible charge* of the design of a component or system subject to *special inspections* is engaged, directly or indirectly, by the contractor, except where the contractor is also the *owner*, the owner or the owner's authorized agent shall designate a substitute *registered design professional* who shall perform the duties required of the *special inspections coordinator*. The *building official* shall be notified in writing by the owner or the owner's authorized agent if the *special inspections coordinator* is changed or is unable to continue to perform the duties.

(Add) **1703.7.1 Interim reports.** The *special inspections coordinator* shall collect, review and compile reports from *special inspectors* and *approved agencies* and shall submit interim reports to the *building official* and to the appropriate *registered design professional* at the intervals established pursuant to Section 1704.2.4.

(Amd) **1704.2 Special inspections and tests.** Where application is made to the *building official* for construction as specified in Section 105, the *owner* or the *owner's authorized agent*, other than the contractor, shall employ one or more *approved agencies* to provide *special inspections* and tests during construction on the types of work specified in Section 1705 and identify the *approved agencies* to the *building official*. These *special inspections* and tests are in addition to the inspections by the *building official* that are identified in Section 110.

Exceptions:

1. *Special inspections* and tests are not required for construction of a minor nature or as warranted by conditions in the *jurisdiction as approved* by the *building official*.
2. Unless otherwise required by the *building official*, *special inspections* and tests are not required for Group U occupancies that are accessory to a residential occupancy including, but not limited to, those listed in Section 312.1.
3. The contractor is permitted to employ the *approved agencies* where the contractor is also the *owner*.

4. The contractor is permitted to employ the *approved agencies* for the verification of the temporary installation restraint/bracing required for cold-formed steel trusses in Section 1705.2.5 and metal-plate-connected wood trusses in Section 1705.5.2.

(Amd) **1704.2.4 Report requirement.** *Approved agencies* shall keep records of special inspections and tests. The *special inspections coordinator* of the *approved agency* shall submit reports of special inspections and tests to the *building official* and to the *registered design professional in responsible charge* at frequencies required by the approved *construction documents* or *building official*. All reports shall describe the nature and extent of inspections and tests, the location where the inspections and tests were performed, and indicate that work inspected or tested was or was not completed in conformance to *approved construction documents*. Discrepancies shall be brought to the immediate attention of the contractor for correction. If the discrepancies are not corrected, the *special inspections coordinator* shall immediately bring the discrepancies to the attention of the *building official* and of the *registered design professional in responsible charge* prior to the completion of that phase of the work. A final report of inspections documenting completion of all required *special inspections and tests* and correction of any discrepancies noted in the inspections or tests shall be submitted prior to the issuance of the *certificate of occupancy*. Interim summary reports shall be submitted by the *special inspections coordinator* periodically at the frequency agreed upon by the *permit applicant* and the *building official* prior to the start of work.

(Amd) **1704.2.5.1 Fabricator approval.** *Special inspections* during fabrication shall be permitted to be reduced or eliminated when approved by the *registered design professional in responsible charge* where the work is done on the premises of a fabricator registered and *approved* to perform such work without *special inspection*. Approval shall be based upon review of the fabricator's written procedures and quality control manuals that provide a basis for control of materials and workmanship, with periodic auditing of fabrication and quality control practices by an *approved special inspection agency*. *Approved* fabricators shall include:

1. A fabricator of structural steel certified by the American Institute of Steel Construction Inc.'s Certification Program for Structural Steel Fabricators, Standard for Steel Building Structures.
2. A manufacturer of metal building systems accredited by the ICC International Accreditation Service (IAS) in accordance with accreditation criteria IAS-AC472.
3. A fabricator of precast *concrete* certified by the Precast/Prestressed Concrete Institute's Plant Certification Program, Groups A and C.
4. A fabricator of cold-formed steel trusses certified by the Structural Building Components Research Institute (SBCRI) TPI Third Party Quality Assurance Program.
5. A fabricator of wood trusses certified by the SBCRI TPI Third Party Quality Assurance Program.
6. A fabricator of structural timber components and assemblies certified by the American Institute of Timber Construction's Certified Fabricator Program.

At the completion of fabrication, the *approved* fabricator shall submit a *certificate of compliance* to the owner or the owner's authorized agent for submittal to the *building official* as specified in Section 1704.5 stating that the work was performed in accordance with the *approved construction documents*.

(Amd) **1705.2.5 Cold-formed steel trusses.** Where a cold-formed steel truss has an overall height of 60 inches (1524 mm) or greater, or a clear span of 30 feet (9114 mm) or greater, the *special inspector* shall verify that the permanent individual truss member restraint/bracing is installed in accordance with the *approved* truss submittal package. Where a cold-formed steel truss clear span is 60 feet (18288 mm) or greater, the *special inspector* shall verify that the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing are installed in accordance with the *approved* truss submittal package.

(Add) **1705.2.7 Cold-formed steel light-frame construction.** *Special inspections* of prefabricated cold-formed steel light-frame structural elements and assemblies shall be in accordance with Section 1704.2.5. *Special inspections* of site-built cold-formed steel light-frame structural elements and assemblies shall be in accordance with this section and Table 1705.2.7.

Exceptions: *Special inspections*, other than Items 5(a) and 5(b) of Table 1705.2.7, of site-built cold-formed steel light-frame structural elements and assemblies shall not be required in the following cases:

1. *Buildings and structures in Risk Category I*, in accordance with Table 1604.5.
2. *Buildings and structures in Risk Category II* in accordance with Table 1604.5, which are in wind exposure category B or C in accordance with Section 1609.4.3, are in Seismic Design Category A or B, and are not more than three stories high.

(Add) TABLE 1705.2.7 REQUIRED SPECIAL INSPECTIONS OF COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION

| TYPE | CONTINUOUS SPECIAL INSPECTION | PERIODIC SPECIAL INSPECTION | IBC REFERENCE |
|--|-------------------------------|-----------------------------|----------------------|
| 1. Inspect Material Grade and Thickness | | X | |
| 2. Inspect Framing and Details <ul style="list-style-type: none"> a. Framing layout, member sizes and bearing lengths b. Blocking, bridging and web stiffeners c. Holes^a | | X X X | |
| 3. Inspect Connections <ul style="list-style-type: none"> a. Bolted and screwed connections, including diameter, length, spacing and edge distance b. Welded connections c. Proprietary hangers and framing anchors, including fastener sizes and quantities d. Tie-down anchors, including anchor rod sizes and fastener sizes and quantities | | X X X X | |
| 4. Inspect Shear Walls and Diaphragms <ul style="list-style-type: none"> a. Panel grade and thickness^b b. Steel strapping size, grade and thickness c. Fastener size, length and spacing d. Framing member sizes at panel edges e. Blocking at panel edges | | X X X X X | |
| 5. Inspect Cold-Formed Steel Trusses <ul style="list-style-type: none"> a. Temporary installation restraint/bracing for truss spanning 60 feet or more b. Permanent individual truss member restraint/ bracing for trusses with an overall height of 60 inches or greater or spanning 30 feet or more | | X X | 1705.2.4 1705.2.4 |

- a. Inspections of holes to be performed after electrical, mechanical and plumbing rough-in inspections.
- b. Includes wood structural panels, steel sheet panels and gypsum board panels.

(Amd) **1705.5 Wood construction.** *Special inspections* of prefabricated wood structural elements and assemblies shall be in accordance with Section 1704.2.5. *Special inspections* of site-built wood structural elements and assemblies shall be in accordance with this section and Table 1705.5.

Exceptions: *Special inspections*, other than items of mass timber construction in Table 1705.5.3 and items 5(a) and 5(b) of Table 1705.5, of site-built wood structural assemblies, shall not be required in the following cases:

1. *Buildings and structures in Risk Category I*, in accordance with Table 1604.5.
2. *Buildings and structures in Risk Category II* in accordance with Table 1604.5, which are in wind exposure category B or C in accordance with Section 1609.4.3, are in Seismic Design Category A or B, and are not more than three stories high.

(Add) TABLE 1705.5 REQUIRED SPECIAL INSPECTIONS OF WOOD CONSTRUCTION

| TYPE | CONTINUOUS SPECIAL INSPECTION | PERIODIC SPECIAL INSPECTION | IBC REFERENCE |
|--|-------------------------------------|-----------------------------------|------------------|
| 1. Inspect Grading of Wood Materials a. Sawn lumber framing b. Structural composite lumber c. Wood structural panels | | X X X | |
| 2. Inspect Framing and Details a. Framing layout, member sizes and bearing lengths b. Blocking and bridging c. Holes and notches ^a | | X X X | |
| 3. Inspect Connections a. Bolted and screwed connections, including diameter, length, spacing and edge distance b. Nailed connections, including diameter, length, type and spacing of nails c. Proprietary hangers and framing anchors, including fastener sizes and quantities d. Tie-down anchors including | | X X X X | |
| 4. Inspect Shear Walls and <i>Diaphragms</i> a. Panel <i>grade</i> and thickness ^b b. Fastener size, length and spacing c. Framing member sizes at panel d. Blocking at panel edges e. Field gluing f. High-load <i>diaphragms</i> | X | X X X X X | 1705.5.1 |
| 5. Inspect Metal-Plate Connected Wood Trusses a. Temporary installation restraint/bracing for truss spanning 60 feet or more b. Permanent individual truss member restraint/ bracing for trusses with an overall height of 60 inches or greater or spanning 30 feet or more c. Multi-ply truss connections | | X X X | 1705.5.2 |

- a. Inspections of holes and notches to be performed after electrical, mechanical and plumbing rough-in inspections.
- b. Applies to wood structural panels and gypsum board panels.

(Amd) **1705.5.2 Metal-plate-connected wood trusses.** Where a truss has an overall height of 60 inches (1524 mm) or greater, or a clear span of 30 feet (9144 mm) or greater, the *special inspector* shall verify that the permanent individual truss member restraint/bracing is installed in accordance with the *approved* truss submittal package. Where a truss clear span is 60 feet (18288 mm) or greater, the *special inspector* shall verify that the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing are installed in accordance with the *approved* truss submittal package.

(Add) **1705.6.1 Rigid inclusion systems.** *Special inspections* and tests shall be performed during installation of *rigid inclusion systems* as specified in Table 1705.6.1. The approved geotechnical investigation and *construction documents* prepared by the *registered design professional(s)* shall be used to determine compliance.

(Add) **TABLE 1705.6.1 REQUIRED SPECIAL INSPECTIONS AND TESTS OF RIGID INCLUSION SYSTEMS**

| TYPE | CONTINUOUS SPECIAL INSPECTION | PERIODIC SPECIAL INSPECTION |
|---|-----------------------------------|-----------------------------|
| 1. Inspect installation and load testing operations and maintain complete and accurate records for each <i>rigid inclusion</i> . | X | - |
| 2. Verify <i>rigid inclusion</i> materials, placement locations, diameters, and plumbness. Verify embedment into bearing strata and adequate end-bearing strata capacity. Record concrete or grout columns. Verify top of <i>rigid inclusions</i> elevations. | X | - |
| 3. Perform tests and <i>special inspections</i> on concrete or grout in accordance with applicable requirements of Section 1705.3. | In accordance with Section 1705.3 | |
| 4. During <i>rigid inclusion load transfer layer</i> installation, verify use of proper materials, procedures, material densities, and lift thickness. | X | - |

(Del) **1705.12 Special inspections for wind resistance.** Delete section and all subsections.

CHAPTER 18 – SOILS AND FOUNDATIONS

(Amd) TABLE 1806.2 PRESUMPTIVE LOAD-BEARING VALUES

| CLASS OF MATERIALS | VERTICAL FOUNDATION PRESSURE (psf) | LATERAL BEARING PRESSURE (psf/ft below natural grade) | LATERAL SLIDING RESISTANCE | |
|---|------------------------------------|---|--------------------------------------|-----------------------------|
| | | | Coefficient of friction ^a | Cohesion (psf) ^b |
| 1. Crystalline bedrock | 100,000 | 1,200 | 0.6 | ---- |
| 2. Sedimentary and foliated rock | 20,000 | 400 | 0.35 | ---- |
| 3. Cemented sand, gravel, silt, clay (hard pan) | 8,000 | 300 | 0.35 | ---- |
| 4. Sandy gravel and/or gravel (GW and GP) | 6,000 | 200 | 0.35 | ---- |
| 5. Sand, silty sand, clayey sand, silty gravel and clayey gravel (SW, SP, SM, SC, GM, and GC) | 4,000 | 150 | 0.25 | ---- |
| 6. Clay, sandy clay, silty clay, clayey silt, silt and sandy silt (CL, ML, MH, and CH) | 1,500 | 100 | ---- | 130 |

For SI: 1 pound per square foot = 0.0479 kPa, 1 pound per square foot per foot = 0.157 kPa/m

a. Coefficient to be multiplied by the *dead load*.

b. Cohesion value to be multiplied by the contact area, as limited by Section 1806.3.2

(Amd) **1807.2.5 Guards and vehicle barriers.** *Guards and vehicle barriers* shall be provided at retaining walls in accordance with Sections 1807.2.5.1 through 1807.2.5.3.

Exception: *Guards* are not required at retaining walls not accessible to the public.

(Amd) **1807.2.5.1 Where required.** At retaining walls located within 36 inches (914 mm) of walking surfaces, parking lots, or driveways, a *guard* shall be required between the walking surface and the open side of the retaining wall where the walking surface is located more than 30 inches (762 mm) measured vertically to the surface or grade below at any point within 36 inches (914 mm) horizontally to the edge of the open side. *Guards* shall comply with the loading requirements of Section 1607.9. For the purpose of this section, grass, planting beds or landscaped areas shall not be considered a walking surface.

At retaining walls located within 36 inches (914mm) of parking lots or driveways, *guards* shall also serve as *vehicle barriers* and shall be required between the parking lot or driveway and the open side of the retaining wall where the parking lot or driveway is located more than 30 inches (762 mm) measured vertically to the surface or grade below at any point within 36 inches (914 mm) horizontally to the edge of the open side. *Guards* serving as *vehicle barriers* shall comply with the loading requirements of Section 1607.9 and 1607.11.

(Amd) **1809.5 Frost protection.** Except where otherwise protected from frost, foundations 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 (1067 mm) below finished grade;
2. Constructing in accordance with ASCE 32; 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. Assigned to *Risk Category I*, in accordance with Section 1604.5;
2. Area of 600 square feet (56 m^2) or less for light-frame construction or 400 square feet (37 m^2) or less for other than light-frame construction; and
3. Eave height of 10 feet (3048 mm) or less.

Shallow foundations shall not bear or be installed on frozen soil.

(Add) **1809.15 Rigid inclusion systems.** *Rigid inclusion systems* shall be in accordance with this section.

(Add) **1809.15.1 General.** Where ground improvement systems use *rigid inclusions*, *rigid inclusion systems* shall be designed, detailed and installed in accordance with Section 1809.15.2.

(Add) **1809.15.2 Design and detailing.** *Rigid inclusion systems* shall be designed and detailed in accordance with Sections 1809.15.2.1 through 1809.15.2.3.

(Add) **1809.15.2.1 Design requirements.** *Rigid inclusion systems* for shallow foundation support shall be designed by a *registered design professional*, referred to in this section as the *rigid inclusion system designer*. The design of *rigid inclusion systems* shall include all applicable components of the compression and lateral loads, and downdrag. The *rigid inclusions* and the *rigid inclusion load transfer layer* shall be constructed and installed in accordance with construction documents provided by the *rigid inclusion system designer*. The *rigid inclusion system designer* shall provide construction documents and calculations with the information specified in Section 1809.15.2.2.

(Add) **1809.15.2.2 Construction Documents.** For buildings or *structures* where *rigid inclusion systems* are provided, the documentation pertaining to design, shall be included and the following information shall be shown:

1. Supported shallow foundation structural loads, including vertical, lateral, and rotational stability provided by the building designer.
2. Required load-bearing capacity of the *rigid inclusion system*.
3. *Rigid inclusion system* design with geotechnical and structural engineering calculations.
4. Load distribution and strain compatibility between the rigid inclusions and surrounding strata and materials being reinforced or improved.
5. Structural compatibility between the rigid inclusions and the shallow foundations including:
 - a. Thickness and characteristics of the *rigid inclusion load transfer layer*.
 - b. Impacts of concentrated reaction loads imposed by the *rigid inclusion* on shallow foundations.
 - c. Minimum number and configuration of *rigid inclusion* to establish vertical, lateral, and rotational stability of isolated and continuous shallow foundations.
6. Short-term and long-term settlements of shallow foundations.
7. *Rigid inclusion* load testing quantity, locations, method, instrumentation, and acceptance criteria necessary to confirm the allowable rigid inclusion design load and performance. At least one load test shall be performed in each significantly different soil profile into which the *rigid inclusion* are installed.
8. Documentation that axial stresses in *rigid inclusion* do not exceed $0.3 f'_c$.

(Add) **1809.15.2.3 Allowable stresses.** The allowable stresses for materials used in *rigid inclusions* shall be in accordance with Section 1810.3.2.6.

(Add) **1809.15.2.4 Load Test.** Where *rigid inclusions* are used to increase bearing capacity, or where predicted settlements without *rigid inclusions* would cause harmful distortion or instability in the structure, control test elements shall be tested in accordance with ASTM D1143 or ASTM D4945. One or more load tests shall be conducted in each area of similar subsurface conditions. The resulting allowable load shall be not more than one-half of the ultimate load bearing capacity as assessed by one of the published methods listed in Section 1810.3.3.1.3.

(Add) **1809.15.3 Installation.** The rigid inclusion systems shall be installed in accordance with construction documents provided by the *rigid inclusion systems* designer.

(Add) **1809.15.4 Special inspection.**

Special inspections in accordance with Section 1705.6.1 shall be provided for *rigid inclusion systems*.

(Add) **1809.15.5 As built documents.**

As-built documentation shall be provided to be *building official* as indicated in Section 110.3.1.1.

CHAPTER 19 – CONCRETE

(Del) **1905.6.1 Seismic Design Categories A and B.** Delete section and renumber Section 1905.6.2 as 1905.6.1.

CHAPTER 22 – STEEL

(Amd) **2206.1.3.2 Trusses spanning 60 feet or greater.** The owner, the owner's authorized agent or the contractor shall contract with a qualified *registered design professional* for the design of the temporary installation restraint/bracing and the permanent *individual truss member* restraint/bracing for trusses with clear spans 60 feet (18288 mm) or greater. *Special inspection* of trusses 60 feet (18288 mm) or greater in length shall be in accordance with Section 1705.2.5.

CHAPTER 23 – WOOD

(Add) **2303.1.1.3 Ungraded lumber.** Pursuant to section 29-256b of the Connecticut General Statutes, the use of ungraded lumber shall be allowed in Group U Utility and Miscellaneous structures in accordance with Section 312.

(Amd) **2303.4.1.3 Trusses spanning 60 feet or greater.** The owner, the owner's authorized agent or the contractor shall contract with a qualified *registered design professional* for the design of the temporary installation restraint and diagonal bracing and the *PITMR* and *PITMDB* for all trusses with clear spans 60 feet (18288 mm) or greater.

CHAPTER 26 – FOAM PLASTIC INSULATION

(Add) **2603.1.1.1 Foamed-in-place insulating material.** Pursuant to section 29-277 of the Connecticut General Statutes, foamed-in-place insulating material, except urethane foam insulation or styrene foam insulation, shall not be sold or installed in this state on or after May 28, 2013, unless the manufacturer or supplier has certified to the State Building Inspector that the material complies with the provisions of said section.

CHAPTER 27 – ELECTRICAL

(Add) **2701.2 Minimum broadband infrastructure.** Pursuant to section 16-330f of the Connecticut General Statutes, infrastructure shall be provided to support broadband Internet service access in a new construction or a major alteration of a commercial or multifamily building. Infrastructure shall include a designated area for a broadband Internet access service provider to connect to the building and a technology plan to distribute the broadband signal throughout the building.

Exception: Detached one- and two-family dwellings and multiple single-family dwellings (townhouses).

(Add) **2702.2.20 Electric fire pumps.** *Buildings* provided with standby electrical power for the purpose of continuing operations or occupancy shall provide standby power in accordance with Article 701 of NFPA 70, *National Electrical Code* portion of the Connecticut State Building Code for any electric fire pump installed to provide an adequate water supply or minimum operating pressure to a required *automatic sprinkler system*.

(Amd) **2702.4 Maintenance.** Emergency and *standby power systems* shall be maintained and tested in accordance with the Connecticut State Fire Prevention Code.

(Add) SECTION 2704 LIGHT POLLUTION CONTROLS

(Add) **2704.1 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 2,600 lumens or less.
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 *International Existing Building Code* portion of the Connecticut State Building Code or within a designated historic district.
4. Outdoor sports *facility* lighting of the participant sport area.
5. Emergency *exit discharge* lighting.
6. Sign illumination.
7. Festoon lighting, as defined in NFPA 70, *National Electrical Code* portion of the Connecticut State Building Code.
8. Temporary lighting for emergencies, *repairs*, construction, special events or similar activities.

CHAPTER 28 – MECHANICAL SYSTEMS

(Amd) **2801.1 Scope.** The provisions of this chapter, the *International Mechanical Code* and the *International Fuel Gas Code* shall govern the design, construction, erection and installation of mechanical appliances, equipment and systems used in *buildings* and *structures* covered by this code. Masonry chimneys, fireplaces and barbecues shall comply with the *International Mechanical Code* and Chapter 21 of this code. The *International Existing Building Code*, the *International Mechanical Code* and the *International Fuel Gas Code* shall govern the *alteration, repair, relocation, replacement and addition* of mechanical components, appliances, equipment and systems.

(Add) **2801.2 Space heaters.** Space heaters shall comply with the requirements of sections 29-318, 29-318a, 29-318b and 29-318c of the Connecticut General Statutes, and the regulations adopted by the

Commissioner of Consumer Protection under authority of section 29-318c of the Connecticut General Statutes.

CHAPTER 29 – PLUMBING SYSTEMS

(Amd) **2901.1 Scope.** The provisions of this chapter and the *International Plumbing Code* shall govern the design, construction, erection and installation of plumbing components, appliances, equipment and systems used in *buildings* and *structures* covered by this code. Toilet and bathing rooms shall be constructed in accordance with Section 1210. The *International Plumbing Code* shall govern the use and maintenance of plumbing components, appliances, equipment and systems. The *International Existing Building Code* and the *International Plumbing Code* shall govern the *alteration, repair, relocation, replacement and addition* of plumbing components, *appliances, equipment and systems*.

(Add) **2901.2 Private sewage disposal systems.** 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. 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) **2902.1 Minimum number of fixtures.** Plumbing fixtures shall be provided in the minimum number shown in Table 2902.1 based on the actual use of the building or space. Uses not shown in Table 2902.1 shall be considered individually by the *building official*. The number of occupants shall be determined by this code.

Exceptions:

1. The following minimum fixtures shall be provided in *Group R-1 bed and breakfast establishments*: Water closets – one per two *guestrooms*; lavatories – one per two *guestrooms*; bathtubs/showers – one per two *guestrooms*. Plumbing fixtures in *Group R-1 bed and breakfast establishments* shall be permitted to be accessed from hallways and *corridors* and to be shared by guests.
2. Child washing and *diaper changing tables* shall be permitted in lieu of bathtubs or showers in Group I-4 child care occupancies.

(Add) **2902.8 Diaper changing tables.** Pursuant to section 29-256e of the Connecticut General Statutes, each new construction or substantial renovation of a public building, as defined in section 1-1 of the Connecticut General Statutes, or place of accommodation, resort or amusement, as defined in section 46a-63 of the Connecticut General Statutes, that includes at least one restroom that is open to the public provide on each floor level that is open to the public as follows:

1. At least one baby *diaper changing table* that is accessible to men and at least one baby *diaper changing table* that is accessible to women, or
2. At least one baby *diaper changing table* that is accessible to both men and women.

CHAPTER 30 – ELEVATORS AND CONVEYING SYSTEMS

(Add) **3001.1.1 Equipment regulated by regulation.** All elevators, dumbwaiters, material lifts, vertical and inclined platform lifts, inclined *stairway* chairlifts, limited-use/limited-application elevators, and escalators, including existing systems, shall comply with regulations adopted by the Commissioner of Administrative Services pursuant to chapter 538 of the Connecticut General Statutes. Where the provisions of this chapter conflict with the regulations adopted under Section 29-192 of the Connecticut General Statutes, the requirements of the regulations shall prevail.

(Del) **3001.2 Elevator emergency communication systems.** Delete section in its entirety.

CHAPTER 31 – SPECIAL CONSTRUCTION

(Amd) **3102.1 General.** The provisions of this section shall apply to *air-supported, air-inflated, membrane-covered-cable, membrane-covered-frame structures* and *tensile membrane structures*, collectively known as *membrane structures*, erected for a period of 180 days or longer. Those erected for a shorter time shall comply with Section 3103.9. *Membrane structures* covering water storage facilities, water clarifiers, water treatment plants, sewage treatment plants, greenhouses and similar facilities not used for human occupancy are required to meet only the requirements of Sections 3102.3.1 and 3102.7. *Membrane structures* erected on a *building, balcony, deck or other structure* shall comply with this section.

(Add) **3102.3.1.1 Flame propagation performance testing and certification.** Before a permit is granted, the *owner* or the owner's authorized agent shall file with the *fire code official* a certificate provided by the product manufacturer to verify that the materials have been tested and certified by an *approved* testing laboratory. The certificate shall indicate that the floor coverings, *tents*, *membrane structures* and their appurtenances, which include sidewalls, drops and tarpaulins, are composed of materials meeting the flame propagation performance of Test Method 2 of NFPA 701. Additionally, it shall indicate that the bunting and combustible decorative materials and effects are composed of material meeting the flame propagation performance criteria of Test Method 1 or Test Method 2 of NFPA 701, as applicable. Alternatively, the materials shall be treated with a flame retardant in an *approved* manner and meet the flame propagation performance criteria of the applicable test method of NFPA 701. The certificate shall indicate compliance with the testing requirements of NFPA 701, Chapter 16. The flame propagation performance criteria shall be effective for the period specified by the permit.

(Add) **3102.3.1.2 Label.** *Membrane structures* or *tents* shall have a permanently affixed label bearing the following information:

1. The identification of size and fabric or material.
2. The names and addresses of the manufacturers of the *tent* or *membrane structure*.
3. A statement that the fabric or material meets the requirements of Section 3102.3.1.1.
4. If treated, the date when a flame-retardant treatment was last applied to the fabric or material, the trade name or kind of chemical used in treatment, name of person or firm treating the fabric or material, and name of testing agency and test standard by which the fabric or material was tested.
5. If untreated, a statement that no treatment was applied when the fabric or material met the requirements of Section 3102.3.1.1.

(Add) **3102.3.1.3 Certificate.** The certificate required by Section 3102.3.1.1 shall contain all of the information specified in Section 3102.3.1.2.

(Add) **3102.9 Spot lighting.** Spot or effect lighting shall only be powered by electricity, and all combustible construction located within 6 feet (1829 mm) of such equipment shall be protected with *approved* noncombustible insulation not less than 9 $\frac{1}{4}$ inches (235 mm) thick.

(Add) **3102.10 Heating and cooking equipment.** Permanent and temporary heating and cooking equipment shall be in accordance with Section 3108.12 of the Connecticut State Fire Safety Code.

(Add) **3102.11 LP-gas.** The storage, handling and use of LP-gas and LP-gas equipment shall be in accordance with Section 4101.6 of the Connecticut State Fire Safety Code.

(Add) **3102.12 Flammable and combustible liquids.** The use of flammable-fuel-fired equipment shall be

in accordance with Section 3108.13 of the Connecticut State Fire Safety Code.

(Add) **3102.13 Separation of generators.** Generators and other internal combustion power sources shall be separated from *tents* or membrane *structures* by a minimum of 20 feet (6096 mm) and shall be isolated from contact with the public by fencing, enclosure or other *approved* means.

Exception:

Generators 7.5KW or less shall be separated from *tents* or membrane *structures* by not less than 5 feet (1,524 mm).

(Amd) **3103.1 General.** The provisions of Sections 3103.1 through 3103.8 shall apply to *structures* erected for a period of less than 180 days. Temporary *special event structures*, *tents*, *umbrella structures* and other membrane *structures* erected for a period of less than 180 days shall comply with Section 3103.9. *Temporary structures* erected for a longer period of time and *public-occupancy temporary structures* shall comply with the applicable sections of this code.

Exceptions:

1. *Public-occupancy temporary structures* complying with Section 3103.1.1 shall be permitted to remain in service for 180 days or more but not more than 1 year where *approved* by the *building official*.
2. *Public-occupancy temporary structures* within the confines of an *existing structure* are not required to comply with Section 3103.6.

(Amd) **3103.1.3 Permit required.** *Temporary structures* that cover an area greater than 400 square feet (37 m²), including 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 25 or more persons, shall not be erected, operated or maintained for any purpose without obtaining a *permit* from the *building official*.

(Add) **3103.1.4 Outdoor assembly event.** For the purposes of this section, an outdoor assembly event shall include a circus, carnival, *tent* show, theater, skating rink, dance hall or other place of assembly in or under which persons gather for any purpose.

(Add) **3103.9 Tents and other membrane structures.** All temporary *tents* and membrane *structures* shall comply with this section.

(Add) **3103.9.1 Permit required.** *Tents* and membrane *structures* having an area in excess of 400 square feet (37 m²) shall not be erected, operated or maintained for any purpose without obtaining a *permit* from the *building official*.

Exceptions:

1. *Tents* used exclusively for recreational camping purposes.
2. *Tents* open on all sides which comply with all of the following:
 - 2.1. Individual *tents* having a maximum size of 700 square feet (65 m²).
 - 2.2. Multiple *tents* placed side by side without a fire break clearance of 12 feet (3658 mm), with an aggregate area not exceeding 700 square feet (65 m²) total.
 - 2.3. A minimum clearance of 12 feet (3658 mm) to all other *structures* and *tents*.
3. *Tents* 900 square feet (84 m²) 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.

(Add) **3103.9.2 Use period.** Temporary tents or air-supported, air-inflated or tensioned membrane *structures* shall not be erected for a period of more than 180 days within a 12-month period on a single premises.

(Add) **3103.9.3 Construction documents.** A detailed *site* and floor plan for *tents* or *membrane structures* with an *occupant load* of 50 or more shall be provided with each permit application. The *tent* or *membrane structure* floor plan shall indicate details of the *means of egress* facilities, seating capacity, arrangement of the seating, and location and type of heating and electrical equipment. The *construction documents* shall include an analysis of structural stability. *Tents* and *membrane structures* erected in accordance with Section 3103.9.5.4 shall comply with the structural stability requirements of that section.

(Add) **3103.9.4 Location.** *Tents* or *membrane structures* shall not be located within 20 feet (6096 mm) of *lot lines*, *buildings*, other *tents* or *membrane structures*, parked vehicles, or internal combustion engines. For the purpose of determining required distances, support ropes and guy wires shall be considered as part of the temporary *membrane structure* or *tent*.

Exceptions:

1. Separation distance between *membrane structures* and *tents* not used for cooking is not required when the aggregate floor area does not exceed 15,000 square feet (1394 m²).
2. *Membrane structures* or *tents* need not be separated from *buildings* when all of the following conditions are met:
 - 2.1. The aggregate floor area of the *membrane structure* or *tent* shall not exceed 10,000 square feet (929 m²).
 - 2.2. The aggregate floor area of the *building* and *membrane structure* or *tent* shall not exceed the allowable floor area including increases as indicated in this code.
 - 2.3. Required *means of egress* are provided for both the *building* and *membrane structure* or *tent*, including travel distances.

(Add) **3103.9.4.1 Location of structures in excess of 15,000 square feet (1394 m²) in area.** *Membrane structures* having an area of 15,000 square feet (1394 m²) or more shall be located not less than 50 feet (15240 mm) from any other *tent* or *structure* as measured from the sidewall of the *tent* or *membrane structure* unless joined together by a *corridor*.

(Add) **3103.9.4.2 Membrane structures on buildings.** *Membrane structures* that are erected on *buildings*, *balconies*, *decks* or other *structures* shall be regulated as permanent *membrane structures* in accordance with Section 3102.

(Add) **3103.9.4.3 Connecting corridors.** *Tents* or *membrane structures* are allowed to be joined together by means of *corridors*. *Exit doors* shall be provided at each end of such *corridor*. On each side of such *corridor* and approximately opposite each other, there shall be provided openings not less than 12 feet (3658 mm) wide.

(Add) **3103.9.4.4 Fire break.** An unobstructed fire break passageway or fire road not less than 12 feet (3658 mm) wide and free from guy ropes or other obstructions shall be maintained on all sides of all *tents* and *membrane structures* unless otherwise *approved* by the *building official*.

(Add) **3103.9.5 Structural stability and anchorage required.** *Tents* or *membrane structures* and their appurtenances shall be designed and installed to withstand the elements of weather and prevent collapsing in accordance with the manufacturer's instructions or this code. Documentation of structural stability shall be furnished to the *building official*.

(Add) **3103.9.5.1 Tents and membrane structures with a Risk Category IV occupancy.** *Tents* and *membrane structures* with a *Risk Category IV* occupancy shall be designed and constructed to comply with Sections 1606 through 1609.

(Add) **3103.9.5.2 Tents and membrane structures greater than one story.** *Tents and membrane structures* exceeding one story shall be designed and constructed to comply with Sections 1606 through 1609.

(Add) **3103.9.5.3 Tents and membrane structures greater than 7,500 square feet (697 m²).** *Tents and membrane structures* greater than 7,500 square feet (697 m²) shall be designed and constructed to comply with Sections 1606 through 1609.

(Add) **3103.9.5.4 Tents and membrane structures with an occupant load greater than 1,000.** *Tents and membrane structures* with an occupant capacity greater than 1,000 persons shall be designed and constructed to comply with Sections 1606 through 1609.

(Add) **3103.9.5.5 Other tents and membrane structures.** Other *tents and membrane structures* that are erected for a period not exceeding 60 consecutive days shall be designed to resist an allowable design wind speed (V_{asd}) of not less than 45 mph (20.1 m/s). *Tents and membrane structures* that will be in service between November 15 and April 15 shall be capable of supporting snow loads complying with Section 1609 in addition to the applicable dead loads. The provisions for “unobstructed slippery roofs” in Figure 7.4-1 of ASCE 7 may be utilized when obstructions that would prevent sliding of snow from the roof are not present.

(Add) **3103.9.5.5.1 Ballast anchoring systems for tents supported only by perimeter poles.** Ballast anchoring systems for *tents* complying with Section 3103.9.5.4 that are supported only by perimeter poles and do not require X-bracing within the plane of the side walls shall be deemed to comply with the applicable wind requirements, provided the following conditions are met:

1. The tent is of a hip roof configuration with an eave height of not more than 8 feet (2438 mm).
2. The Enclosure Classification for the tent shall be Enclosed, Partially Open or Open as defined in Section 26.2 of ASCE 7.
3. The angle between guys and the horizon shall conform to the tent manufacturer's requirements and shall not be less than 45 degrees nor more than 68 degrees.
4. The tent shall not be used when winds are in excess of 35 mph (15.6 m/s).
5. An anemometer shall be installed on the tent and the tent shall be provided with signage stating that the tent should be evacuated if winds exceed 35 mph (15.6 m/s).
6. An evacuation plan certified by the operator of the tent shall be submitted to the building official as part of the permit application.
7. A plan indicating the location of all ballast and weights shall be submitted to the building official as part of the permit application. Ballast shall be calculated by one of the following:
 - a. For ballast systems where the tent poles and ballast are connected using a common base plate or similar means, the weight of the ballast provided at each tent pole shall be not less than the following:

For each pole perpendicular to the ridge: $P_{ball} = 5wsx$ (pounds)

For each pole on a hip end: $P_{ball} = 2.5wsx$ (pounds)

where:

w = width of tent perpendicular to the ridge line (feet)

s = tent post spacing parallel to the ridge (feet)

x = tent exposure factor (1.00 if tent is located in wind Exposure B or Exposure C as defined in Section 1609.4.3; 1.20 if tent is located in wind Exposure D)

- b. For ballast systems where the tent poles and ballast are not connected using a common base plate, the weight of the ballast provided at each tent pole shall be not less than the following:

For each pole perpendicular to the ridge: $P_{ball} = 6.5wsx$ (pounds)
For each pole on a hip end: $P_{ball} = 3.25wsx$ (pounds)

(Add) **3103.9.6 Means of egress.** *Means of egress* for temporary *tents* and membrane *structures* shall be in accordance with Section 3103.11 of the *International Fire Code*.

(Add) **3103.9.6.1 Means of egress illumination.** *Means of egress* shall be illuminated with light having an intensity of not less than 1 foot-candle (11 lux) at floor level while the *structure* is occupied. Fixtures required for *means of egress* illumination shall be supplied from a separate circuit or source of power.

(Add) **3103.9.6.2 Maintenance of means of egress.** The required width of *exits*, aisles and passageways shall be maintained at all times to a public way. Guy wires, guy ropes and other support members shall not cross a *means of egress* at a height of less than 8 feet (2438 mm). The surface of *means of egress* shall be maintained in an approved manner.

(Add) **3103.9.6.3 Protections of tent stakes.** *Tent stakes* adjacent to any *means of egress* from any tent open to the public shall be railed off, capped, or covered so as not to present a hazard.

(Add) **3103.9.7 Flame propagation performance testing and certification.** Before a permit is granted, the *owner* or the owner's authorized agent shall file with the *code official* a certificate provided by the product manufacturer to verify that the materials have been tested and certified by an *approved* testing laboratory. The certificate shall indicate that the floor coverings, *tents*, membrane *structures* and their appurtenances, which include sidewalls, drops and tarpaulins, are composed of materials meeting the flame propagation performance of Test Method 2 of NFPA 701. Additionally, it shall indicate that the bunting and combustible decorative materials and effects are composed of material meeting the flame propagation performance criteria of Test Method 1 or Test Method 2 of NFPA 701, as applicable. Alternatively, the materials shall be treated with a flame retardant in an *approved* manner and meet the flame propagation performance criteria of the applicable test method of NFPA 701. The certificate shall indicate compliance with the testing requirements of NFPA 701, Chapter 16. The flame propagation performance criteria shall be effective for the period specified by the permit.

(Add) **3103.9.7.1 Label.** Membrane *structures* or *tents* shall have a permanently affixed label bearing the following information:

1. The identification of size and fabric or material.
2. The names and addresses of the manufacturers of the *tent* or *air-supported structure*.
3. A statement that the fabric or material meets the requirements of Section 3103.9.7.2.
4. If treated, the date when a flame-retardant treatment was last applied to the fabric or material, the trade name or kind of chemical used in treatment, name of person or firm treating the fabric or material, and name of testing agency and test standard by which the fabric or material was tested.
5. If untreated, a statement that no treatment was applied when the fabric or material met the requirements of Section 3103.9.7.2.

(Add) **3103.9.7.2 Certificate.** The certificate required by Section 3103.9.7 shall contain all of the information specified in Section 3103.9.7.

(Add) **3103.9.8 Temporary air-supported and air-inflated membrane structures.** In addition to other applicable requirements of Section 3103.9, temporary *air-supported* and *air-inflated* membrane *structures* shall be in accordance with Sections 3103.9.8.1 through 3103.9.8.4.

(Add) **3103.9.8.1 Door operation.** In high winds greater than 50 miles per hour (22 m/s) or in snow conditions, the use of doors in *air-supported structures* shall be controlled to avoid excessive air loss. Doors shall not be left open under any condition.

(Add) **3103.9.8.2 Fabric envelope design and construction.** *Air-supported* and *air-inflated structures* shall have the design and construction of the fabric envelope and the method of anchoring in accordance with Architecture Fabric Institute ASI 77.

(Add) **3103.9.8.2.1 Inflation pressure.** Operating pressure in *air-supported* and *air-inflated structures* shall be maintained at the design pressure specified by the manufacturer to assure stability and to avoid excessive distortion during high wind or snow *loads*.

(Add) **3103.9.8.3 Blowers.** An *air-supported structure* used as a place of assembly shall be furnished with not less than two blowers, each of which has adequate capacity to maintain full inflation pressure with normal leakage. The design of the blower shall be so as to provide integral limiting pressure at the design pressure specified by the manufacturer.

(Add) **3103.9.8.4 Auxiliary power.** Places of assembly for more than 200 occupants shall be furnished with either a fully automatic auxiliary engine-generator set capable of powering one blower continuously for 4 hours, or a supplementary blower powered by an internal combustion engine that shall be automatic in operation.

(Add) **3103.9.9 Operational requirements.** Temporary and permanent *tents* and membrane *structures* shall comply with Sections 3103.9.9.1 through 3103.9.9.5.

(Add) **3103.9.9.1 Spot lighting.** Spot or effect lighting shall only be powered by electricity, and all combustible construction located within 6 feet (1829 mm) of such equipment shall be protected with *approved* noncombustible insulation not less than 9½ inches (235 mm) thick.

(Add) **3103.9.9.2 Heating and cooking equipment.** Heating and cooking equipment shall be in accordance with Section 3108.12 of the Connecticut State Fire Safety Code.

(Add) **3103.9.9.3 LP-gas.** The storage, handling and use of LP-gas and LP-gas equipment shall be in accordance with Section 4101.6 of the Connecticut State Fire Safety Code.

(Add) **3103.9.9.4 Flammable and combustible liquids.** The use of flammable-fuel-fired equipment shall be in accordance with Section 3108.13 of the Connecticut State Fire Safety Code.

(Add) **3103.9.9.5 Separation of generators.** Generators and other internal combustion power sources shall be separated from *tents* or membrane *structures* by a minimum of 20 feet (6096 mm) and shall be isolated from contact with the public by fencing, enclosure or other *approved* means.

Exception:

Generators 7.5KW or less shall be separated from *tents* or membrane *structures* by not less than 5 feet (1,524 mm).

(Amd) **3105.2 Design and construction.** *Awnings* and *canopies* shall be designed and constructed to withstand wind or other lateral *loads* and *live loads* as required by Chapter 16 of this code 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*, heavy timber complying with Section 2304.11, or 1-hour construction and shall be either fixed, retractable, folding or collapsible.

Exceptions:

1. Fixed awnings shall not be required to be designed to resist nominal (V_{asd}) wind loads in excess of 90 mph (40.2 m/s).
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.

(Add) **3109.2 Public swimming pools.** Public *swimming pools* shall be completely enclosed by a barrier meeting the requirements of the *International Swimming Pool and Spa Code* portion of the Connecticut State Building Code.

(Add) **3109.3 Swimming pool barriers.** Residential and public *swimming pool* barriers shall comply with the requirements of the *International Swimming Pool and Spa Code* portion of the Connecticut State Building Code.

CHAPTER 33 – SAFEGUARDS DURING CONSTRUCTION

(Add) **3303.8 Demolition of structures.** The demolition of *structures* shall be conducted in accordance with the State Demolition Code as found in Part IV of chapter 541 of the Connecticut General Statutes and with this chapter.

CHAPTER 35 – REFERENCED STANDARDS

(Amd)
ASME American Society of Mechanical Engineers
Two Park Avenue
New York, NY 10016

| Standard reference number—year of publication | Title | Referenced in code section number |
|---|--|---|
| (Amd) A17.1-2013 | Safety Code for Elevators and Escalators | 907.3.3, 911.1.6, 1009.4.1, 1607.12.1, Table 3001.3, 3001.4, 3001.5, 3002.5, 3003.2, 3007.1, 3008.1.4, 3008.7.1 |
| (Amd) A18.1-2008 | Safety Standard for Platform Lifts and Stairway Chairlifts | 1110.11, Table 3001.3 |

(Amd) National Fire Protection Association
NFPA
1 Batterymarch Park
Quincy, MA 02169-7471

| Standard reference number—year of publication | Title | Referenced in code section number |
|---|--|--|
| (Add) 02-23 | Hydrogen Technologies Code | 101.4.1 |
| (Amd) 11-24 | Standard for Low-, Medium-, and High Expansion Foam | 904.7, 904.14 |
| (Amd) 14-24 | Standard for the Installation of Standpipe and Hose Systems | 905.2, 905.3.4, 905.4.2, 905.6.2, 905.8 |
| (Amd) 17-24 | Standard for Dry Chemical Extinguishing Systems | 904.6, 904.14 |
| (Amd) 17A-24 | Standard for Wet Chemical Extinguishing Systems | 904.5, 904.14 |
| (Amd) 45-24 | Standard on Fire Protection for Laboratories Using Chemicals | 428.3.7 |
| (Add) 54-24 | National Fuel Gas Code | 101.4.1 |
| (Amd) 58-24 | Liquefied Petroleum Gas Code | 415.9.2 |
| (Amd) 92-24 | Standard for Smoke Control Systems | 909.7, 909.8 |
| (Amd) 101-21 | Life Safety Code – as amended by the 2022 Connecticut Fire Safety Code Part IV | 1030.6.2 |
| (Amd) 101-23 | Standard for Fire Prevention and Control in Coal Mines | 426.1 |
| (Add) 130-23 | Standard for Fixed Guideway Transit and Passenger Rail Systems | 430.1 |
| (Amd) 170-24 | Standard for Fire Safety and Emergency Symbols | 1025.2.6.1 |
| (Amd) 286-24 | Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth | 402.6.4.4, 424.2803.1.1, 803.1.1.1, 803.11, 803.12, 803.13, 1406.10.2, 1408.10.3, 2603.7, 2603.9, 2604.2.4, 2614.4, 3105.3 |
| (Amd) 655-17 | Standard for the Prevention of Sulfur Fires and Explosions | 426.1 |
| (Amd) 780-23 | Standard for the Installation of Lightning Protection Systems | 2703.2, 2703.2.1, 2703.3 |
| (Amd) 1124-06 | Code for the Manufacture, Transportation, and Storage of Fireworks and Pyrotechnic Articles | 415.6.4.1 |

(Add) New Appendix S as follows:

APPENDIX S GROUP R-2 – TRIPLEX AND QUADRUPLEX PROVISIONS

User notes:

About this appendix: This appendix provides for the design and construction of triplexes and quadruplexes that are unique to this appendix, where otherwise not permitted in other sections of the main code as an alternative to two- and multiple-family residential construction that promotes increased housing supply and affordability.

SECTION S101 GENERAL

S101.1 General. Where provided in Group R occupancies, triplexes and quadruplexes shall comply with the provisions of this code, except as modified by this appendix. Triplexes and quadruplexes shall be in accordance with this appendix and other applicable requirements in this code.

S101.2 [IRC R101.2] Scope. The provisions of this appendix *shall* apply to the construction, *alteration*, movement, enlargement, replacement, *repair*, *equipment*, use and occupancy, location, removal and demolition of detached *three- and four-family dwellings*, that are not *townhouses*, not more than three stories above grade plane in height with a separate *means of egress* and their *accessory structures* not more than three stories above grade plane in height.

Exception:

Live/work units in three- and four-family *dwellings*, 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 permitted to comply with the requirements of this code.

S101.3 [IRC R301.3] Story height.

The wind and seismic provisions of this code shall apply to *buildings* with *story heights* not exceeding the following:

1. For wood wall framing, the *story height* shall not exceed 11 feet 7 inches (3531 mm) and the laterally unsupported bearing wall stud height permitted by Table R602.3(5).

Exception: A *story height* not exceeding 13 feet 7 inches (4140 mm) is permitted provided that the maximum wall stud clear height does not exceed 12 feet (3658 mm), the wall studs are in accordance with Exception 2 or 3 of Section R602.3.1 of the *International Residential Code* portion of the Connecticut State Building Code or an engineered design is provided for the wall framing members, and wall bracing for the *building* is in accordance with Section R602.10 of the *International Residential Code* portion of the Connecticut State Building Code. Studs shall be laterally supported at the top and bottom plate in accordance with Section R602.3 of the *International Residential Code* portion of the Connecticut State Building Code.

2. For cold-formed steel wall framing, the *story height* shall be not more than 11 feet 7 inches (3531 mm) and the unsupported bearing wall stud height shall be not more than 10 feet (3048 mm).
3. For masonry walls, the *story height* shall be not more than 13 feet 7 inches (4140 mm) and the bearing wall clear height shall be not more than 12 feet (3658 mm).

Exception: An additional 8 feet (2438 mm) of bearing wall clear height is permitted for gable end walls.

4. For insulating concrete form walls, the maximum *story height* shall not exceed 11 feet 7 inches (3531 mm) and the maximum unsupported wall height per *story* as permitted by Section R608 of the *International Residential Code* portion of the Connecticut State Building Code.

5. For structural insulated panel (SIP) walls, the story height shall be not more than 11 feet 7 inches (3531 mm) and the bearing wall height per story as permitted by Section R610 tables shall not exceed 10 feet (3048 mm).

For walls other than wood-framed walls, individual walls or wall studs shall be permitted to exceed these limits as permitted by Chapter 6 of the *International Residential Code* portion of the Connecticut State Building Code, provided that the *story heights* of this section are not exceeded. An engineered design shall be provided for the wall or wall framing members where the limits of Chapter 6 of the *International Residential Code* portion of the Connecticut State Building Code are exceeded. Where the *story height* limits of this section are exceeded, the design of the *building*, or the noncompliant portions thereof, to resist wind and seismic loads shall be in accordance with the *International Building Code* portion of the Connecticut State Building Code.

S101.4 [ISPSC 102.9.1] Swimming pools. Pursuant to section 19a-36 of the Connecticut General Statutes, no person shall construct, substantially alter or reconstruct a *public pool*, in *three- or four-family dwellings*, 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.

SECTION S102 DEFINITIONS

S102.1 Definitions. The following words and terms shall, for the purposes of this appendix, have the meanings shown herein:

(Add) **DWELLING, THREE-FAMILY (TRIPLEX).** A building on a single lot, other than a *townhouse*, containing not more than three *dwelling units*, with not more than six lodgers or boarders per *dwelling unit*, and with common walls or common floor/ceiling between the *dwelling units*.

(Add) **DWELLING, FOUR-FAMILY (QUADRUPLEX).** A building on a single lot, other than a *townhouse*, not more than for *dwelling units*, with not more than six lodgers or boarders per *dwelling unit*, and with common walls or common floor/ceiling between the *dwelling units*.

TRIPLEX. See “*Dwelling, three-family*.”

QUADRUPLEX. See “*Dwelling, four-family*.”

SECTION S103 FIRE AND SMOKE PROTECTION FEATURES

S103.1 [IRC R302.1] Exterior walls. Construction, projections, openings and penetrations of exterior walls of *dwellings* and accessory buildings shall comply with Table S103.1(1) of this appendix based on *fire separation distance*; or *dwellings* equipped throughout with an *automatic sprinkler system* installed in accordance with Section 903.3.1 of this code shall comply with Table S103.1(2) of this appendix based on *fire separation distance*.

For the purposes of determining *fire separation distance*, *dwellings* on the same *lot* shall be assumed to have an imaginary line between them. Where a new *dwelling* is to be erected on the same lot as an existing *dwelling*, the location of the assumed imaginary line with relation to the existing *dwelling* shall be such that the existing *dwelling* meets the requirements of this section.

Exceptions:

1. Walls, projections, openings or penetrations in walls perpendicular to the line used to determine the *fire separation distance*.
2. Walls of *individual dwelling units* and their *accessory buildings* located on the same *lot*.
3. Detached tool sheds and storage sheds, playhouses and similar *structures* exempted from *permits* are not required to provide wall protection based on location on the *lot*. Projections beyond the exterior wall shall not extend over the *lot line*.
4. Detached garages accessory to a *dwelling unit* located within 2 feet (610 mm) of a *lot line* are permitted to have roof eave projections not exceeding 4 inches (102 mm).
5. Foundation vents installed in compliance with this code are permitted.

TABLE S103.1(1) [IRC R302.1(1)] EXTERIOR WALLS

| EXTERIOR WALL ELEMENT | | MINIMUM FIRE-RESISTANCE RATING | MINIMUM FIRE SEPARATION DISTANCE |
|-----------------------|---------------------------|---|----------------------------------|
| Walls | Fire-resistance rated | 1 hour— tested in accordance with ASTM E119, UL 263 or Section 703.2.2 of this code with exposure from both sides | 0 feet |
| | Not fire-resistance rated | 0 hours | ≥ 5 feet |
| Projections | Not allowed | NA | < 2 feet |
| | Fire-resistance rated | 1 hour on the underside, or heavy timber, or fire-retardant-treated wood ^{a, b} | ≥ 2 feet to < 5 feet |
| | Not fire-resistance rated | 0 hours | ≥ 5 feet |
| Openings in walls | Not allowed | NA | < 3 feet |
| | 25% maximum of wall area | 0 hours | 3 feet |
| | Unlimited | 0 hours | 5 feet |
| Penetrations | All | Comply with Section 714 of this code | < 3 feet |
| | | None required | 3 feet |
| | | | |
| | | | |
| | | | |

For SI: 1 foot = 304.8 mm.

NA = Not Applicable.

- a. The fire-resistance rating shall be permitted to be reduced to 0 hours on the underside of the eave overhang if fireblocking is provided from the wall top plate to the underside of the roof sheathing.
- b. The fire-resistance rating shall be permitted to be reduced to 0 hours on the underside of the rake overhang where vent openings that communicate with the attic are not installed in the overhang or gable wall.

TABLE S103.1(2) [IRC R302.1(2)] EXTERIOR WALLS—DWELLINGS WITH AN AUTOMATIC SPRINKLER SYSTEM

| EXTERIOR WALL ELEMENT | | MINIMUM FIRE-RESISTANCE RATING | MINIMUM FIRE SEPARATION DISTANCE |
|-----------------------|---------------------------|---|----------------------------------|
| Walls | Fire-resistance rated | 1 hour—tested in accordance with ASTM E119, UL 263 or Section 703.2.2 of this code with exposure from the outside | 0 feet |
| | Not fire-resistance rated | 0 hours | 3 feet ^a |
| Projections | Not allowed | NA | < 2 feet |
| | Fire-resistance rated | 1 hour on the underside, or heavy timber, or fire-retardant-treated wood ^{b, c} | 2 feet ^a |
| | Not fire-resistance rated | 0 hours | 3 feet |
| Openings in walls | Not allowed | NA | < 3 feet |
| | Unlimited | 0 hours | 3 feet ^a |
| Penetrations | All | Comply with Section 714 of this code | < 3 feet |
| | | None required | 3 feet ^a |

For SI: 1 foot = 304.8 mm.

NA = Not Applicable.

- a. For residential subdivisions where all *dwellings* are equipped throughout with an *automatic sprinkler system* installed in accordance with Section 903.3.1 of this code, the *fire separation distance* for exterior walls not fire-resistance rated and for fire-resistance-rated projections shall be permitted to be reduced to 0 feet, and unlimited unprotected openings and penetrations shall be permitted, where the adjoining lot provides an open setback yard that is 6 feet or more in width on the opposite side of the property line.
- b. The fire-resistance rating shall be permitted to be reduced to 0-hours on the underside of the eave overhang if fireblocking is provided from the wall top plate to the underside of the roof sheathing.
- c. The fire-resistance rating shall be permitted to be reduced to 0-hours on the underside of the rake overhang where vent openings that communicate with the attic are not installed in the overhang or gable wall.

S103.2 [IRC R302.3] Three- and four-family dwellings. *Dwelling units* in three and four-family *dwellings* shall be separated from each other in accordance with Sections S103.2.1 through S103.3.4 of this appendix, regardless of whether a lot line exists between *dwelling units*.

S103.2.1 [IRC R302.3.1] Dwelling unit separation. The *dwelling units* shall be separated by fire-resistance rated assemblies that are vertical, horizontal, or a combination thereof.

S103.2.2 [R302.3.2] Fire-resistance rating. Vertical and horizontal assemblies separating *dwelling units* shall have a fire-resistance rating of 1-hour, or a fire-resistance rating of one-half hour in buildings equipped throughout with an *automatic sprinkler system* installed in accordance with Section 903.3.1 of this code. Fire-resistance ratings shall be based on testing in accordance with ASTM E119 or UL 263, or an analytical method in accordance with Section 703.2.2 of this code.

S103.2.3 [R302.3.3] Continuity. Vertical and horizontal assemblies separating *dwelling units* shall be constructed in a manner that provides continuity of the fire-resistance rating between the *dwelling units*.

S103.2.3.1 [R302.3.3.1] Horizontal assemblies. Horizontal assemblies separating *dwelling units* shall extend to and be tight against exterior walls or vertical separation assemblies complying with Section S103.2.2 of this appendix.

S103.2.3.2 [R302.3.3.2] Vertical assemblies. Vertical assemblies separating *dwelling units* shall extend to and be tight against any combination of the following:

1. The foundation.
2. A horizontal assembly complying with Section S103.2.3 of this appendix.
3. The underside of roof sheathing.
4. The ceiling beneath an uninhabitable *attic*, provided that the ceiling is constructed using not less than $5/8$ -inch (15.9 mm) *Type X gypsum board*, an *attic draft stop* constructed as specified in Section 708.4.3 of this code is provided above and along the vertical assembly terminating at the ceiling, and the structural framing supporting the ceiling is protected by not less than $1/2$ -inch (12.7 mm) gypsum board or equivalent.

S103.2.4 [R302.3.4] Supporting construction. Vertical and horizontal assemblies separating *dwelling units* shall be supported by construction having an equal or greater fire-resistance rating.

S103.2.5 [R302.3.5] Vertically stacked dwelling units. Where a *dwelling unit* in three or four-family *dwellings* are located above another dwelling unit and an *automatic sprinkler system* complying with NFPA 13 is not provided in such *dwelling units*, both of the following shall apply:

1. Horizontal and vertical assemblies separating the *dwelling units*, including an interior *stairway* serving as the *means of egress* for the upper *dwelling unit*, shall have a fire-resistance rating of 1-hour based on testing in accordance with ASTM E119 or UL 263, or an analytical method in accordance with Section 703.2.2 of the *International Building Code* portion of the Connecticut State Building Code.
2. A notification appliance connected to smoke alarms in the other *dwelling unit* shall be provided in each *dwelling unit*.

S103.3 [R302.3.6] Shared accessory areas. Shared accessory areas or spaces shall be separated from each individual *dwelling unit* by fire-resistance rated assemblies that are vertical, horizontal, or a combination thereof having not less than a 1-hour *fire-resistance rating* based on testing in accordance with ASTM E119 or UL 263, or an analytical method in accordance with Section 703.2.2 of the *International Building Code* portion of the Connecticut State Building Code. Openings and penetrations between the shared common area and *dwelling unit* shall comply with Sections S103.3.6.1, S103.3.2, and S103.3.3 of this appendix.

S103.3.1 [R302.3.6.1] Opening protection. Openings from shared accessory areas or spaces directly into a room used for sleeping purposes shall not be permitted. Other openings between the shared accessory spaces or area and *dwelling units* shall be provided with a fire door assembly in accordance with Section 716 of the *International Building Code* portion of the Connecticut State Building Code.

S103.3.2 [R302.3.6.2] Duct penetration. Ducts penetrating the walls or ceilings separating the *dwelling* from the shared accessory area or space shall be constructed of sheet steel not less than No. 26 gage (0.48 mm) or other approved material and shall not have openings into the shared accessory area or space .

S103.3.3 [R302.3.6.3] Other penetrations. Penetrations through the walls, ceiling and floor-level separation required in Section S103.3 of this appendix shall be protected as required by Section 714 of the *International Building Code* portion of the Connecticut State Building Code.

S103.4 [IRC R302.6] Dwelling unit garage fire separation. The garage shall be separated as required by Table S103.4(1) except that wood structural members of the minimum dimension specified in the *International Building Code* portion of the Connecticut State Building Code for Type IV-HT construction shall be acceptable without further protection. Openings in garage walls *shall* comply with Section 406.3.2 of this code. Attachment of *gypsum board* *shall* comply with Table S103.4(2) of this appendix. The wall separation provisions of Table S103.4(1) of this appendix *shall* not apply to garage walls that are perpendicular to the adjacent *dwelling unit* wall.

TABLE S103.4(1) [IRC R302.6] DWELLING UNIT GARAGE SEPARATION

| SEPARATION | MATERIAL |
|---|--|
| From the dwelling unit and <i>attics</i> | Not less than $\frac{5}{8}$ inch Type X <i>gypsum board</i> or equivalent applied to the garage side ^a |
| From all habitable rooms above the garage | Not less than $\frac{5}{8}$ inch Type X <i>gypsum board</i> or equivalent |
| Structure(s) supporting floor/ceiling assemblies used for separation required by this section | Not less than $\frac{5}{8}$ inch Type X <i>gypsum board</i> or equivalent ^a |
| Garages located less than 3 feet from a <i>dwelling unit</i> on the same <i>lot</i> | Not less than $\frac{5}{8}$ inch Type X <i>gypsum board</i> or equivalent applied to the interior side of <i>exterior walls</i> that are within this area ^a |

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

^a If *building* is sprinklered in accordance with Section 903.3.1.1 or Section 903.3.1.2 of this code, then not less than $\frac{1}{2}$ -inch *gypsum board* or equivalent is required.

TABLE S103.4(2) [R702.3.5]
MINIMUM THICKNESS AND APPLICATION OF GYPSUM BOARD AND GYPSUM PANEL PRODUCTS

| THICKNESS OF GYPSUM BOARD OR GYPSUM PANEL PRODUCTS (inches) | APPLICATION | ORIENTATION OF GYPSUM BOARD OR GYPSUM PANEL PRODUCTS TO FRAMING | MAXIMUM SPACING OF FRAMING MEMBERS (inches o.c.) | MAXIMUM SPACING OF FASTENERS (inches) | | SIZE OF NAILS FOR APPLICATION TO WOOD FRAMING ^c |
|---|--|---|--|---------------------------------------|---------------------|--|
| | | | | Nails ^a | Screws ^b | |
| Application without adhesive | | | | | | |
| ^{3/8} | Ceiling ^d | Perpendicular | 16 | 7 | 12 | 13 gage, 1 ¹ / ₄ " long, 19/ ₆₄ " head; 0.098" diameter, 1 ¹ / ₄ " long, ring shank; or 4d cooler nail, 0.080" diameter, 1 ³ / ₈ " long, 7/ ₃₂ " head. |
| | Wall | Either direction | 16 | 8 | 16 | |
| ^{1/2} | Ceiling | Either direction | 16 | 7 | 12 | 13 gage, 1 ³ / ₈ " long, 19/ ₆₄ " head; 0.098" diameter, 1 ¹ / ₄ " long, ring shank; 5d cooler nail, 0.086" diameter, 1 ⁵ / ₈ " long, 15/ ₆₄ " head; or gypsum board nail, 0.086" diameter, 1 ⁵ / ₈ " long, 9/ ₃₂ " head. |
| | Ceiling ^d | Perpendicular | 24 | 7 | 12 | |
| | Wall | Either direction | 24 | 8 | 12 | |
| | Wall | Either direction | 16 | 8 | 16 | |
| ^{5/8} | Ceiling | Either direction | 16 | 7 | 12 | 13 gage, 1 ⁵ / ₈ " long, 19/ ₆₄ " head; 0.098" diameter, 1 ³ / ₈ " long, ring shank; 6d cooler nail, 0.092" diameter, 1 ⁷ / ₈ " long, 1/ ₄ " head; or gypsum board nail, 0.0915" diameter, 1 ⁷ / ₈ " long, 19/ ₆₄ " head. |
| | Ceiling | Perpendicular | 24 | 7 | 12 | |
| | Type X at garage ceiling beneath habitable rooms | Perpendicular | 24 | 6 | 6 | 17/ ₈ " long 0.099" diameter galvanized nails or equivalent drywall screws. Screws shall comply with Section S103.4.1. |
| | Wall | Either direction | 24 | 8 | 12 | |
| | Wall | Either direction | 16 | 8 | 16 | |
| Application with adhesive | | | | | | |
| ^{3/8} | Ceiling ^d | Perpendicular | 16 | 16 | 16 | |

| | | | | | | |
|--------------------------------|----------------------|------------------|----|----|----|--|
| | Wall | Either direction | 16 | 16 | 24 | Same as above for $\frac{3}{8}$ " gypsum board and gypsum panel products. |
| $\frac{1}{2}$ or $\frac{5}{8}$ | Ceiling | Either direction | 16 | 16 | 16 | Same as above for $\frac{1}{2}$ " and $\frac{5}{8}$ " gypsum board and gypsum panel products, respectively. |
| | Ceiling ^d | Perpendicular | 24 | 12 | 16 | |
| | Wall | Either direction | 24 | 16 | 24 | |
| Two $\frac{3}{8}$ layers | Ceiling | Perpendicular | 16 | 16 | 16 | Base ply nailed as above for $\frac{1}{2}$ " gypsum board and gypsum panel products; face ply installed with adhesive. |
| | Wall | Either direction | 24 | 24 | 24 | |

For SI: 1 inch = 25.4 mm.

- a. For application without adhesive, a pair of nails spaced not less than 2 inches apart or more than $2\frac{1}{2}$ inches apart shall be permitted to be used with the pair of nails spaced 12 inches on center.
- b. Screws shall be in accordance with Section S103.4.1 of this appendix. Screws for attaching gypsum board or gypsum panel products to structural insulated panels shall penetrate the wood structural panel facing not less than $\frac{7}{16}$ inch.
- c. Where cold-formed steel framing is used with a clinching design to receive nails by two edges of metal, the nails shall be not less than $\frac{5}{8}$ inch longer than the gypsum board or gypsum panel product thickness and shall have ringed shanks. Where the cold-formed steel framing has a nailing groove formed to receive the nails, the nails shall have barbed shanks or be 0.086-inch diameter, $1\frac{5}{8}$ inches long, $\frac{15}{64}$ -inch head for $\frac{1}{2}$ -inch gypsum board or gypsum panel product; and 0.099-inch diameter, $1\frac{7}{8}$ inches long, $\frac{15}{64}$ -inch head for $\frac{5}{8}$ -inch gypsum board or gypsum panel product.
- d. Three-eighths-inch-thick single-ply gypsum board or gypsum panel product shall not be used on a ceiling where a water-based textured finish is to be applied, or where it will be required to support insulation above a ceiling. On ceiling applications to receive a water-based texture material, either hand or spray applied, the gypsum board or gypsum panel product shall be applied perpendicular to framing. Where applying a water-based texture material, the minimum gypsum board thickness shall be increased from $\frac{3}{8}$ inch to $\frac{1}{2}$ inch for 16-inch on center framing, and from $\frac{1}{2}$ inch to $\frac{5}{8}$ inch for 24-inch on center framing or $\frac{1}{2}$ -inch sag-resistant gypsum ceiling board shall be used.

S103.4.1 [R702.3.5.1] Screw fastening. Screws for attaching *gypsum board* and *gypsum panel products* to wood framing shall be Type W or Type S in accordance with ASTM C1002 and shall penetrate the wood not less than $\frac{5}{8}$ inch (15.9 mm). Gypsum board and *gypsum panel products* shall be attached to cold-formed steel framing with minimum No. 6 screws. Screws for attaching gypsum board and *gypsum panel products* to cold-formed steel framing less than 0.033 inch (1 mm) thick shall be Type S in accordance with ASTM C1002 or bugle head style in accordance with ASTM C1513 and shall penetrate the steel not less than $\frac{3}{8}$ inch (9.5 mm). Screws for attaching gypsum board and *gypsum panel products* to cold-formed steel framing 0.033 inch to 0.112 inch (1 mm to 3 mm) thick shall be in accordance with ASTM C954 or bugle head style in accordance with ASTM C1513. Screws for attaching gypsum board and *gypsum panel products* to *structural insulated panels* shall penetrate the *wood structural panel* facing not less than $\frac{7}{16}$ inch (11.1 mm).

SECTION S104 FIRE PROTECTION AND LIFE SAFETY SYSTEMS

S104.1 Automatic sprinkler systems. *Automatic sprinkler systems* shall comply with Section 903.2.8 of this code.

S104.2 Smoke alarms. *Smoke alarms* shall comply with this section.

S104.2.1 [IRC R310.2.2] Alterations, repairs and additions. Where *alterations, repairs or additions* requiring a *permit* occur, or where one or more sleeping rooms are added or created in existing *dwellings*, the entire *dwelling unit* shall be equipped with smoke alarms located as required for new *dwellings*.

Exceptions:

1. Work involving the *exterior surfaces of dwellings*, such as the replacement of roofing or siding, the *addition* or replacement of windows or doors, or the *addition* of a porch or deck..
2. Installation, *alteration* or *repairs* of plumbing, mechanical or electrical.

S104.2.2 [IBC 907.2.11] New buildings. Listed single- and multiple-station smoke alarms complying with UL 217 shall be installed in accordance with Sections 907.2.11.1 through 907.2.11.7 of this code, NFPA 72 and the manufacturer's instructions.

S104.3 Carbon monoxide alarms. *Carbon monoxide alarms* shall comply with this section.

S104.3.1 [IRC R311.2.2] Alterations, repairs and additions. Where *alterations, repairs or additions* requiring a *permit* occur, or where one or more sleeping rooms are added or created in existing dwellings, the individual *dwelling unit* shall be equipped with carbon monoxide alarms located as required for new *dwellings*.

Exceptions:

1. Work involving the exterior surfaces of *dwellings*, such as the replacement of roofing or siding, the *addition* or replacement of windows or doors, or the addition of a porch or deck.
2. Installation, *alteration* or *repairs* of plumbing, mechanical, or electrical systems that are not fuel-fired.

S104.3.2 New buildings. Carbon monoxide detection shall be installed in accordance with Section 915 of this code.

SECTION S105 FOAM PLASTIC

S105.1 [IRC R303.5.6] Foam-filled garage doors. Garage doors using *foam plastic insulation* complying with Section 2603.3 of this code in detached and attached garages associated with three- and four-family *dwellings* are exempt from the requirements of Sections 2603.3 and 2603.4 of this code.

SECTION S106 MEANS OF EGRESS

S106.1 [IRC R318.1] Means of egress. *Triplexes and quadruplexes* shall be provided with a *means of egress* in accordance with Chapter 10 of this code unless otherwise indicated in Section S106 of this appendix. The *means of egress* shall provide a continuous and unobstructed path of vertical and horizontal egress travel from all portions of the *dwelling unit* to the required egress or *exit* door without requiring travel through a garage. The required egress door shall open directly into a *public way* or to a *yard* or *court* that opens to a *public way*.

S106.2 [IRC R318.2] Egress door. Not less than one egress or *exit* door shall be provided for each *dwelling unit*. The egress door shall be side-hinged and shall provide a clear width of not less than 32 inches (813 mm) where measured between the face of the door and the stop, with the door open 90 degrees (1.57 rad). The clear height of the door opening shall be not less than 78 inches (1981 mm) in height measured from the top of the threshold to the bottom of the stop. Other doors shall not be required to comply with these minimum dimensions. Egress doors shall be readily openable from inside the *dwelling unit* without the use of a key or special knowledge or effort.

S106.3 [IRC R318.7] Stairways. Where required by this code or provided, *stairways* shall comply with this section.

Exceptions:

1. *Stairways* not within or serving a building, porch or deck.
2. *Stairways* leading to nonhabitable attics.
3. *Stairways* leading to *crawl spaces*.

S106.3.1 [IRC R318.7.1] Width. *Stairways* shall not be less than 36 inches (914 mm) in clear width at all points above the permitted *handrail* height and below the required headroom height. The clear width of stairways at and below the *handrail* height, including treads and landings, shall not be less than 29 inches (737 mm) where *handrails* are provided on both sides.

Exceptions:

1. The width of spiral *stairways* shall be in accordance with Section 1011.10 of this code.
2. The width of existing *stairways* serving existing unfinished *attics* or existing unfinished *basements* being converted to *habitable space* or replacement *stairways* within existing *dwellings* shall not be less than 32 inches (813 mm) in clear width at all points above the permitted *handrail* height and below the required headroom height. The clear width of stairways at and below the *handrail* height, including treads and landings, shall not be less than 28 inches (711 mm) where a *handrail* is installed on one side and 24 inches (610 mm) where *handrails* are provided on both sides.
3. Where an incline platform lift or *stairway* chairlift is installed on a *stairway* within a *dwelling unit*, a clear passage width not less than 20 inches (508 mm) shall be provided. If the seat and platform can be folded when not in use, the distance shall be measured from the folded position.
4. *Flights of stairways* within *dwelling units* and *flights of spiral stairways* are permitted to have a *handrail* on one side only.

5. Where permitted to have one *handrail*, the clear width of *stairways* at and below the handrail height, including treads and landings, shall not be less than 32-1/2 inches (826 mm) where a *handrail* is installed on one side.

S106.3.2 [IRC R318.7.2] Headroom. The minimum headroom in all parts of the *stairway* shall not be less than 6 feet 8 inches (2032 mm) measured vertically from the sloped line adjoining the tread *nosing* or from the floor surface of the landing or platform on that portion of the *stairway*.

Exceptions:

1. Where the *nosing* of treads at the side of a *flight* extend under the edge of a floor opening through which the stair passes, the floor opening shall be allowed to project horizontally into the required headroom a maximum of 4 $\frac{3}{4}$ inches (121 mm).
2. The minimum headroom in all parts of existing *stairways* serving existing unfinished *attics* or existing unfinished *basements* being converted to *habitable space* or serving only one *dwelling unit* or replacement *stairs* where the pitch or slope cannot be reduced because of existing construction shall be 6 feet, 4 inches (1930 mm), measured in accordance with Section 1011.3 of this code.

S106.3.3 [IRC R318.7.3] Vertical rise. A flight of stairs shall not have a vertical rise greater than 12 feet 7 inches (3835 mm) between floor levels or landings.

S106.3.4 [R318.7.5] Stair treads and risers. *Stair* treads and *risers* shall meet the requirements of this section. For the purposes of this section, dimensions and dimensioned surfaces shall be exclusive of carpets, rugs or runners.

S106.3.4.1 [R318.7.5.1] Risers. The riser height shall be not more than 8 $\frac{1}{4}$ inches (209.5 mm). The riser height shall be measured vertically between leading edges of adjacent treads. The greatest riser height within any *flight of stairs* shall not exceed the smallest by more than 3/8 inch (9.5 mm). Risers shall be vertical or sloped from the underside of the *nosing* of the tread above at an angle not more than 30 degrees (0.51 rad) from the vertical. Open risers are permitted provided that the opening between treads does not permit the passage of a 4-inch-diameter (102 mm) sphere.

Exceptions:

1. The maximum riser height of existing *stairs* serving existing unfinished *attics* or existing unfinished *basements* being converted to *habitable space* or replacement *stairs* where the pitch or slope cannot be reduced because of existing construction shall be 9 inches (229 mm), measured in accordance with Section 1011.5.2 of this code.
2. The opening between adjacent treads is not limited on spiral *stairways*.
3. The riser height of spiral *stairways* shall be in accordance with Section 1011.10 of this code.

S106.3.4.2 [R318.7.5.2] Treads. The minimum tread depth shall be 9 inches (229 mm). 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. The greatest tread depth within any *flight of stairs* shall not exceed the smallest by more than 3/8 inch (9.5 mm).

Exception: The minimum tread depth of existing *stairs* serving existing unfinished *attics* or existing unfinished *basements* being converted to *habitable space* or replacement *stairs* within existing *dwellings* shall be 8 inches (203 mm), measured in accordance with Section 1011.5.2 of this code.

S106.3.5 [R318.7.6] Landings for stairways. There shall be a floor or landing at the top and bottom of each *stairway*. The width perpendicular to the direction of travel shall be not less than the width of the flight served. For landings of shapes other than square or rectangular, the depth at the walk line and the total area shall be not less than that of a quarter circle with a radius equal to the required landing width.

Where the *stairway* has a straight run, the depth in the direction of travel shall be not less than 36 inches (914 mm).

Exception: A floor or landing is not required at the top of an interior *flight of stairs*, including *stairs* in an enclosed garage, provided that a door does not swing over the *stairs*.

S106.4 [IRC R319.1] Emergency escape and rescue opening required.

Basements, habitable attics, the room to which a sleeping loft is open, and every sleeping room shall have not less than one operable emergency escape and rescue opening. Where *basements* contain one or more sleeping rooms, an *emergency escape and rescue opening* shall be required in each sleeping room. *Emergency escape and rescue openings* shall open directly into a *public way*, or to a *yard* or *court* that opens to a *public way*.

Exceptions:

1. Basements used only to house mechanical *equipment* not exceeding a total floor area of 200 square feet (18.58 m²).
2. Storm shelters constructed in accordance with ICC 500.
3. Where the *dwelling unit* is equipped with an *automatic sprinkler system* installed in accordance with Section 903.3.1 of this code, sleeping rooms in *basements* shall not be required to have *emergency escape and rescue openings* provided that the *basement* has one of the following:
 - 3.1. One *means of egress* complying with Chapter 10 of this code and one *emergency escape and rescue opening*.
 - 3.2. Two *means of egress* complying with Chapter 10 of this code.
4. A *yard* shall not be required to open directly into a *public way* where the *yard* opens to an unobstructed path from the *yard* to the *public way*. Such path shall have a width of not less than 36 inches (914 mm).

S106.4.1 [IRC R319.2.1] Minimum size. *Emergency escape and rescue openings shall* have a net clear opening of not less than 5.7 square feet (0.530 m²).

Exceptions:

1. *Grade floor openings* or below grade openings *shall* have a net clear opening of not less than 5 square feet (0.465 m²).
2. Existing *buildings* undergoing *alterations* or installation of replacement windows *shall* be permitted to utilize removable sashes to achieve the required minimum net clear openings. Such removable sashes *shall* be capable of being removed without the use of a key or tool.

S106.4.2 [IRC R319.2.2] Minimum dimensions. The minimum net clear opening height dimension shall be 24 inches (610 mm). The minimum net clear opening width dimension shall be 20 inches (508 mm). The net clear opening dimensions shall be the result of normal operation of the opening.

S106.5 [IBC 1015.8] Window openings. Windows in Group R-2 and R-3 *buildings* including *dwelling units*, where the bottom of the clear opening of an operable window is located less than 24 inches (610 mm) above the finished floor and more than 72 inches (1829 mm) above the finished grade or other surface below on the exterior of the *building*, shall comply with one of the following:

1. Operable windows where the openings will not allow a 4-inch-diameter (102 mm) sphere to pass through the opening when the window is in its largest opened position, provided that the opening is not required for emergency escape or rescue.
2. Operable windows where the openings are provided with window fall prevention devices that comply with ASTM F2090.
3. Operable windows where the openings are provided with window opening control devices that comply with ASTM F2090. The window opening control device, after operation to release the control device allowing the window to fully open, shall not reduce the minimum net clear

opening area of the window unit to less than the area required by Section 1031.3.1 of this code for *emergency escape and rescue openings*.

SECTION S107 ACCESSIBILITY

S107.1 [IRC R322.1] Scope. Where there are four *dwelling units* in a single *structure*, the provisions of Chapter 11 of this code for Group R-2 shall apply.

SECTION S108 INTERIOR ENVIRONMENT

S108.1 [IRC R304.1] Minimum area. Habitable rooms shall have a floor area of not less than 70 square feet (6.5 m²).

Exception: Kitchens.

S108.2 [IRC R313.1] Minimum height. *Habitable space*, hallways and portions of *basements* containing these spaces *shall* have a *ceiling height* of not less than 7 feet (2134 mm). Bathrooms, toilet rooms and laundry rooms *shall* have a *ceiling height* of not less than 6 feet 8 inches (2032 mm). Existing basements being converted to habitable space shall have a ceiling height of not less than 6 feet 8 inches (2032 mm).

Exceptions:

1. For rooms with sloped ceilings, the required floor area of the room shall have a ceiling height of not less than 5 feet (1524 mm) and not less than 50 percent of the required floor area shall have a ceiling height of not less than 7 feet (2134 mm).
2. The ceiling height above bathroom and toilet room fixtures shall be such that the fixture is capable of being used for its intended purpose. A shower or tub equipped with a showerhead shall have a ceiling height of not less than 6 feet 8 inches (2032 mm) above an area of not less than 30 inches (762 mm) by 30 inches (762 mm) at the showerhead.
3. Beams, girders, ducts or other obstructions in *basements* containing *habitable space* shall be permitted to project to within 6 feet 4 inches (1931 mm) of the finished floor.
4. Beams and girders spaced apart not less than 36 inches (914 mm) in clear finished width shall have a ceiling height of not less than 6 feet 6 inches (1981 mm) from the finished floor.

S108.4 [R316.1] Habitable attics. Habitable attics shall comply with Sections S108.4.1 and S108.4.2 of this appendix.

S108.4.1 [R316.2] Minimum dimensions. A *habitable attic* shall have a floor area in accordance with Section 1208.1 of this code and a *ceiling height* in accordance with Section 1208.2 of this code.

S108.4.2 [R316.3] Story above grade plane. A *habitable attic* shall be considered a *story above grade plane*.

Exceptions: A *habitable attic* shall not be considered to be a *story above grade plane* provided that the *habitable attic* meets all the following:

1. The aggregate area of the *habitable attic* is either of the following:
 - 1.1. Not greater than one-third of the floor area of the *story* below.
 - 1.2. Not greater than one-half of the floor area of the *story* below where the *habitable attic* is located within a *dwelling unit* equipped with an *automatic sprinkler system* in accordance with Section 903.3.1 of this code.
2. The occupiable space is enclosed by the *roof assembly* above, knee walls, if applicable, on the sides and the floor-ceiling assembly below.

3. The floor of the *habitable attic* does not extend beyond the exterior walls of the story below.
4. Where a *habitable attic* is located above a third story, an *automatic sprinkler system* in accordance with Section 903.3.1 of this code shall be installed in the *habitable attic* and remaining portion of the *dwelling unit* or units located beneath the *habitable attic*.

S108.4.3 [R316.4] Means of egress. The *means of egress* for habitable attics shall comply with the applicable provisions of Chapter 10 of this code.

SECTION S109 ENERGY

S109.1 [IRC N1101.1] Scope. Buildings shall be designed and constructed in accordance with the Residential Provisions (IECC-R) of the *International Energy Conservation Code* portion of the Connecticut State Building Code.

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AMENDMENTS TO 2017 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES with SUPPLEMENT 1

CHAPTER 1 – APPLICATION AND ADMINISTRATION

(Amd) **106.2.8 Safety Code for Elevators and Escalators:** ASME A17.1-2013 (American Society of Mechanical Engineers International, Two Park Avenue, New York, NY 10016-5990).

(Amd) **106.2.9 Safety Standard for Platform Lifts and Stairway Chairlifts:** ASME A18.1-2008 (American Society of Mechanical Engineers International, Two Park Avenue, New York, NY 10016-5990).

CHAPTER 5 – GENERAL SITE AND BUILDING ELEMENTS

(Amd) **502.2 Vehicle space size.** Pursuant to section 14-253a of the Connecticut General Statutes, car parking spaces shall be 15 feet (4.6 m) in width including 5 feet (1.5 m) of cross hatch. Van parking spaces shall be 16 feet (4.9 m) in width including 8 feet (2.4 m) of cross hatch.

(Del) **Fig. 502.2(A) Vehicle parking space size.** Delete figure without substitution.

(Del) **Fig. 502.2(B) Vehicle parking space size.** Delete figure without substitution.

(Del) **Fig. 502.4 Parking space access aisle.** Delete figure without substitution.

(Amd) **502.4.1 Location.** Access aisles (cross hatch) shall adjoin an *accessible* route. Two parking spaces shall be permitted to share a common access aisle. If a car and a van space share a common access aisle, that aisle shall be 96 inches (2440 mm) minimum in width. Access aisles shall not overlap with the *vehicular way*. Parking spaces shall be permitted to have access aisles placed on either side of the car or van parking space. Van parking spaces that are angled shall have access aisles located on the passenger side of the parking space.

(Amd) **502.4.2 Width.** Access aisles (cross hatch) serving car parking spaces shall be 60 inches (1525 mm) minimum in width. Access aisles serving van parking spaces shall be 96 inches (2440 mm) minimum in width.

(Amd) **502.6 Vertical clearance.** Vertical clearance for *accessible* van parking spaces shall be in accordance with Sections 1106.6 and 1106.6.1.1 of the *International Building Code* portion of the Connecticut State Building Code.

(Amd) **502.7 Identification.** *Accessible* parking spaces shall be identified by above grade *signs* in accordance with Section 1112.1 of the *International Building Code* portion of the Connecticut State Building Code.

(Del) **504 Stairways.** Delete section in its entirety.

(Del) **505 Handrails.** Delete section in its entirety and replace with the following:

(Add) **505 Handrails.**

(Add) **505.1 General.** Handrails shall be provided in accordance with Section 1014 of the *International Building Code* portion of the Connecticut State Building Code.

CHAPTER 6 – PLUMBING ELEMENTS AND FACILITIES

(Amd) **607.5 Controls.** Controls, other than drain stoppers, shall be provided on an end wall, located between the bathtub rim and grab bar, and between the open side of the bathtub and the centerline of the width of the bathtub. Controls shall comply with Section 309.4.

Exception: Controls in Group I-2 long-term health care facilities that provide supervised, assisted bathing may be located outside of the bathtub compartment.

(Amd) **608.4 Controls and hand showers.** Controls and hand-held showers shall comply with Sections 608.4 and 309.4.

Exception: Controls in Group I-2 long-term health care facilities that provide supervised, assisted bathing shall be permitted to be located outside of the shower compartment.

CHAPTER 7 – COMMUNICATION ELEMENTS AND FEATURES

(Amd) **703.6.3.1 International Symbol of Accessibility.** Pursuant to section 29-269c of the Connecticut General Statutes, references in this code to the International Symbol of Accessibility shall be deemed to mean Connecticut's symbol of access and shall comply with Figure 703.6.3.1.



(Amd) **FIG. 703.6.3.1**

CHAPTER 11 – DWELLING UNITS AND SLEEPING UNITS

(Amd) **1104.3 Accessible Route.** Accessible routes within *Type B dwelling units* shall comply with Section 1104.3.

Exception: Exterior spaces less than 60 inches (1525 mm) in depth.

(Amd) **1104.3.1 Location.** At least one *accessible* route shall connect all spaces and elements that are a part of the unit. *Accessible* routes shall coincide with or be located in the same area as the general *circulation path*.

Exception: An *accessible* route is not required to unfinished attics and unfinished basements that are part of the unit.

AMENDMENTS TO THE 2024 INTERNATIONAL EXISTING BUILDING CODE

CHAPTER 1 – SCOPE AND ADMINISTRATION

(Amd) **101.1 Title.** The 2024 *International Existing Building Code* shall be known as the 2024 *International Existing Building Code* portion of the 2026 Connecticut State Building Code, hereinafter referred to as “the code” or “this code”.

(Amd) **101.2.1 Appendices.** The provisions of Appendix A shall be incorporated into the requirements of this code.

(Amd) **101.4.2 Buildings previously occupied.** The legal use and occupancy of any *building* existing on the date of adoption of this code shall be permitted to continue without change, except as specifically provided in this code or in the Connecticut State Fire Safety Code.

(Add) **101.4.3 Property maintenance.** The *International Property Maintenance Code* is not adopted by the state of Connecticut. Property maintenance shall be in accordance with the requirements of this code and the applicable provisions of the Connecticut State Fire Safety Code and Connecticut State Fire Prevention Code. References to the *International Property Maintenance Code* found within the body of the model document shall be considered null and void.

(Del) **101.6 Corrections of violations of other codes.** Delete in its entirety and replace with the following:

(Add) **101.6 Connecticut State Fire Safety Code abatement.** Where conflicts exist between the requirements of this code and the requirements of a Connecticut State Fire Safety Code abatement order issued in writing by the local fire marshal with respect to an *existing building*, the requirements of that portion of the Connecticut State Fire Safety Code that regulates *existing buildings* shall take precedence.

Exceptions:

1. New *fire protection systems* shall meet the requirements of Chapter 9 of this code.
2. Electrical work shall meet the requirements of NFPA 70, *National Electrical Code*.
3. Structural, plumbing and mechanical work shall conform to the requirements of this code.

(Add) **101.7 Gas.** The *International Fuel Gas Code* is not adopted by the state of Connecticut. Any references to the *International Fuel Gas Code* within the body of this code shall be considered references to the requirements of NFPA 2, *Hydrogen Technologies Code*, NFPA 54, *National Fuel Gas Code* and NFPA 58, *Liquefied Petroleum Gas Code*, as adopted in the Connecticut State Fire Safety Code and the Connecticut State Fire Prevention Code. These requirements apply to liquid petroleum storage systems, gas piping systems extending from the point of delivery to the inlet connections of appliances, the installation and operation of residential and commercial gas appliances and related accessories as covered by this code.

(Add) **101.8 Connecticut State Fire Safety Code.** References to the *International Fire Code* within the body of the model document shall be considered references to the Connecticut State Fire Safety Code.

(Add) **101.9 Means of egress.** In addition to the requirements of this code, *means of egress* in *existing buildings* shall meet the requirements of Chapter 11 of the Connecticut State Fire Safety Code for the proposed occupancy.

(Add) **101.9.1 Construction documents.** The *construction documents* for *Alterations – Level 2, Alterations – Level 3, additions and changes of occupancy* shall show in sufficient detail the location, construction, size and character of all portions of the *means of egress* in compliance with the provisions of this code. The

construction documents shall designate the number of occupants to be accommodated in every *work area* of every floor and in all affected rooms and spaces.

(Del) SECTION 103 CODE COMPLIANCE AGENCY.

Delete subsections in their entirety and replace with the following:

(Add) 103.1 General. Refer to Section 103 of the *International Building Code* portion or Section R103 of the *International Residential Code* portion, as applicable, of the Connecticut State Building Code – Enforcement Agency.

(Del) SECTION 104 DUTIES AND POWERS OF CODE OFFICIAL.

Delete subsections in their entirety and replace with the following:

(Add) 104.1 General. Refer to Section 104 of the *International Building Code* portion or Section R104 of the *International Residential Code* portion, as applicable, of the Connecticut State Building Code – Duties and Powers of Building Official.

(Del) SECTION 105 PERMITS.

Delete subsections in their entirety and replace with the following:

(Add) 105.1 General. Refer to Section 105 of the *International Building Code* portion or Section R105 of the *International Residential Code* portion, as applicable, of the Connecticut State Building Code – Permits.

(Del) SECTION 106 CONSTRUCTION DOCUMENTS.

Delete subsections in their entirety and replace with the following:

(Add) 106.1 General. Refer to Section 107 of the *International Building Code* portion or Section R106 of the *International Residential Code* portion, as applicable, of the Connecticut State Building Code – Construction Documents.

(Del) SECTION 107 TEMPORARY USES, EQUIPMENT AND SYSTEMS.

Delete subsections in their entirety and replace with the following:

(Add) 107.1 General. Refer to Section 108 of the *International Building Code* portion or Section R107 of the *International Residential Code* portion, as applicable, of the Connecticut State Building Code – Temporary Structures and Uses.

(Del) SECTION 108 FEES.

Delete subsections in their entirety and replace with the following:

(Add) 108.1 General. Refer to Section 109 of the *International Building Code* portion or Section R108 of the *International Residential Code* portion, as applicable, of the Connecticut State Building Code – Fees.

(Del) SECTION 109 INSPECTIONS.

Delete subsections in their entirety and replace with the following:

(Add) 109.1 General. Refer to Section 110 of the *International Building Code* portion or Section R109 of the *International Residential Code* portion, as applicable, of the Connecticut State Building Code – Inspections.

(Del) SECTION 110 CERTIFICATE OF OCCUPANCY.

Delete subsections in their entirety and replace with the following:

(Add) **110.1 General.** Refer to Section 111 of the *International Building Code* portion or Section R110 of the *International Residential Code* portion, as applicable, of the Connecticut State Building Code – Certificate of Occupancy.

(Del) **SECTION 111 SERVICE UTILITIES.**

Delete subsections in their entirety and replace with the following:

(Add) **111.1 General.** Refer to Section 112 of the *International Building Code* portion or Section R111 of the *International Residential Code* portion, as applicable, of the Connecticut State Building Code – Service Utilities.

(Del) **SECTION 112 MEANS OF APPEALS.**

Delete subsections in their entirety and replace with the following:

(Add) **112.1 General.** Refer to Section 113 of the *International Building Code* portion or Section R112 of the *International Residential Code* portion, as applicable, of the Connecticut State Building Code – Means of Appeal.

(Del) **SECTION 113 VIOLATIONS.**

Delete subsections in their entirety and replace with the following:

(Add) **113.1 General.** Refer to Section 114 of the *International Building Code* portion or Section R113 of the *International Residential Code* portion, as applicable, of the Connecticut State Building Code – Violations.

(Del) **SECTION 114 STOP WORK ORDER.**

Delete subsections in their entirety and replace with the following:

(Add) **114.1 General.** Refer to Section 115 of the *International Building Code* portion or Section R114 of the *International Residential Code* portion, as applicable, of the Connecticut State Building Code – Stop Work Order.

(Del) **SECTION 115 UNSAFE STRUCTURES AND EQUIPMENT.**

Delete subsections in their entirety and replace with the following:

(Add) **115.1 General.** Refer to Section 116 of the *International Building Code* portion of the Connecticut State Building Code – Unsafe Buildings and Equipment.

(Del) **SECTION 116 EMERGENCY MEASURES.**

Delete subsections in their entirety and replace with the following:

(Add) **116.1 General.** Refer to Section 117 of the *International Building Code* portion of the Connecticut State Building Code – Emergency Measures.

(Del) **SECTION 117 DEMOLITION.**

Delete subsections in their entirety and replace with the following:

(Add) **117.1 General.** Refer to Section 102.6.3 of the *International Building Code* portion of the Connecticut State Building Code – Demolition of Structures.

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

(Amd) **SECTION 202 DEFINITIONS.** Amend or 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. A *building official* may also be known as the *code official*.

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

(Amd) **CHANGE OF OCCUPANCY.** Any of the following shall be considered as a change of occupancy where the current *International Building Code* portion of the Connecticut State Building Code requires a greater degree of safety, accessibility, structural strength, fire protection, *means of egress*, ventilation or sanitation than is existing in the current *building* or structure:

1. Any change in the occupancy classification of a *building* or structure.
2. Any change in the purpose of, or a change in the level of activity within, a *building* or structure.
3. A change of use.
4. When an addition to an *existing building* causes the entire *building*, or *addition*, to be in a higher *risk category* pursuant to Section 1101.3 of this code.

(Amd) **EXISTING BUILDING.** 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) **SUBSTANTIAL STRUCTURAL DAMAGE.** For purposes of this definition, work done to implement repairs shall not be considered damage that reduces structural capacity. Substantial structural damage is a condition where any of the following apply:

1. Vertical elements of the lateral force-resisting system have suffered damage such that the lateral load-carrying capacity of any story in any horizontal direction has been reduced by more than 33 percent from its pre-damage condition.
2. Vertical components carrying gravity load, or any group of such components, have suffered damage, and all of the following conditions apply:
 - a. The affected tributary area exceeds 30 percent of the total area of the structure's floor(s) and roof(s).
 - b. The capacity of the affected components have been reduced more than 20 percent from their pre-damage condition.
 - c. The remaining capacity of the affected elements, with respect to all dead, live and snow loads, is less than 75 percent of that required by the *International Building Code* portion of the Connecticut State Building Code for new *buildings* of similar structure, purpose and location.
3. Horizontal or sloped structural components carrying snow load, or any group of such components, have suffered damage, and all of the following conditions apply:
 - a. The affected area of the roof supports more than 30 percent of the roof area of similar construction.

- b. The capacity of the affected components have been reduced more than 20 percent from their pre-damage condition.
- c. The remaining capacity of the affected elements with respect to dead, live and snow loads is less than 75 percent of that required by the *International Building Code* portion of the Connecticut State Building Code for new *buildings* of similar structure, purpose and location.

(Amd) **TECHNICALLY INFEASIBLE.** An *alteration* of a *building* or a *facility* that has little likelihood of being accomplished because the existing structural conditions require the removal or *alteration* of a load-bearing member that is an essential part of the structural frame, or because other physical or *site* constraints prohibit modification or addition of elements, spaces or features that are in full and strict compliance with the minimum requirements for new construction and that are necessary to provide accessibility. Pursuant to subsection (b) of section 29-269 of the Connecticut General Statutes, the determination of technical infeasibility shall be made by the State Building Inspector.

CHAPTER 3 – PROVISIONS FOR ALL COMPLIANCE METHODS

(Amd) **302.2 Additional codes.** *Alterations, repairs, additions and changes of occupancy* to, or relocation of, *existing buildings* and structures shall comply with the provisions for *alterations, repairs, additions and changes of occupancy* or relocation, respectively, in this code and the *International Energy Conservation Code, International Mechanical Code, International Plumbing Code, and International Residential Code*. Where provisions of the other codes conflict with provisions of this code, the provisions of this code shall take precedence.

(Add) **304.1.1 Snow loads.** Where the intended *alteration* requires a permit for reroofing, any existing structural elements supporting snow loads shall be replaced or altered as needed to carry the design snow loads, including snow drift effects, as required by the *International Building Code* portion of the Connecticut State Building Code for new structures.

Exceptions:

- 1. *Buildings* or structures where there will be no net increase to the roof insulation R-value.
- 2. *Buildings* or structures designed under the 1978, 1987, 1994 or later editions of the Connecticut State Building Code.
- 3. Portions of *buildings* or structures designed under the 1971 edition of the Connecticut State Building Code that are not subjected to snow drifting effects.
- 4. Portions of *buildings* or structures that have a demand-capacity ratio not exceeding 1.05 when analyzed for the design snow loads, including snow drift effects, as required by the *International Building Code* portion of the Connecticut State Building Code for new structures. A statement from a professional engineer shall be provided as confirmation of this exception.

(Amd) **304.2 Snow loads on adjacent buildings.** If an *alteration* or *addition* is located within 20 feet (6.1 m) of an adjacent *existing building*, and the *alteration* or *addition* exceeds the height of the adjacent *existing building*, a statement from a professional engineer confirming compliance with one or more of the following shall be provided:

- 1. No additional snow drift loads will be induced on the roof of the adjacent *existing building*.
- 2. Any additional snow drift loads induced on the roof of the adjacent *existing building* are less than the magnitude of the snow drift loads that would have already existed on the roof of the adjacent *existing building*.
- 3. The demand-capacity ratio of the roof of the adjacent *existing building* does not exceed 1.05 when analyzed for the additional snow drift loads.

Snow drift loads shall be derived in accordance with Section 7.7 of ASCE 7.

(Add) **306.5.1 Complete change of occupancy.** Where an entire *building* undergoes a *change of occupancy*, it shall comply with Section 306.5 and 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 1112 of the *International Building Code* portion of the Connecticut State Building Code.
4. Accessible parking complying with Section 1106 of the *International Building Code* portion of the Connecticut State Building Code, where parking is being provided.
5. At least one accessible passenger loading zone, when loading zones are provided.
6. At least one accessible route connecting accessible parking and accessible passenger loading zones to an accessible entrance.
7. At least one accessible toilet room or toilet and bathing facility complying with Section 1110.2.4 of the *International Building Code* portion of the Connecticut State Building Code.

Where it is *technically infeasible* to comply with the new construction standards for any of these requirements for a change of group or occupancy, the above items shall conform to the requirements to the maximum extent technically feasible.

Exception: The accessible features listed in Items 1 through 7 of this section are not required for an accessible route to *Type B units*.

(Amd) **306.7.8 Lifts and limited-use/limited-application elevators in existing buildings.** Vertical or incline platform lifts, inclined stairway chairlifts and limited-use/limited-application elevators shall not be a part of an accessible route in *existing buildings* undergoing *alteration* or *repair* except that vertical platform lifts and limited-use/limited-application elevators shall be permitted in *existing buildings* where permitted in the locations set forth in Section 1110.11 of the *International Building Code* portion of the Connecticut State Building Code. Pursuant to section 29-200 of the Connecticut General Statutes, the following exceptions are allowed:

Exceptions:

1. In *existing buildings* principally used for meeting, gathering or assembling by any civic, religious, fraternal or charitable organization.
2. In residential *buildings* designed to be occupied by one or two families.
3. In new *buildings* for which a building *permit* application has been filed on or after October 1, 2004, in accordance with the Connecticut State Building Code.
4. In other *existing buildings* and structures only if the State Building Inspector approves such installation.

Lifts shall comply with ICC A117.1 and shall be installed in accordance with ASME A18.1. Limited use/limited-access elevators shall comply with ICC A117.1 and shall be installed in accordance with the Connecticut Safety Code for Elevators and Escalators adopted pursuant to section 29-192 of the Connecticut General Statutes.

(Del) **306.7.9 Platform lifts.** Delete section and replace with the following:

(Add) **306.7.9 Assembly seating.** Where it is *technically infeasible* to disperse accessible seating throughout an altered assembly area, accessible seating areas may be clustered. Each accessible wheelchair space shall have provisions for companion seating and shall be located on an accessible route that also serves as an accessible *means of egress*.

(Amd) **306.7.11.1 Accessible dwelling or sleeping units.** Where Group I-1, I-2, I-3, R-1, R-2 or R-4 dwelling or sleeping units are being altered or added within an *existing building*, the requirements of Section 1108 for Accessible units and Chapter 9 for visible alarms of the *International Building Code* portion of

the Connecticut State Building Code apply only to the quantity of dwelling or sleeping units being altered or added.

(Amd) **306.7.11.2 Type A dwelling or sleeping units.** Where more than 20 Group R-2 dwelling or sleeping units are being altered or added within an *existing building*, the requirements of Section 1108 for *Type A units* and Chapter 9 for visible alarms of the *International Building Code* portion of the Connecticut State Building Code apply only to the quantity of dwelling or sleeping units being added or altered.

(Amd) **306.7.11.3 Type B dwelling or sleeping units.** Where Group I-1, I-2, R-1, R-2, R-3, or R-4 dwelling or sleeping units are being altered or added within an *existing building* and where the *work area* is greater than 50 percent of the aggregate area of the *building*, the requirements of Section 1108 for *Type B units* and Chapter 9 for visible alarms of the *International Building Code* portion of the Connecticut State Building Code apply only to the quantity of the dwelling or sleeping units being altered or added.

(Amd) **306.7.18.4 Toilet facilities.** Where toilet rooms are provided, not fewer than one accessible single-user toilet room or one accessible family or assisted-use toilet room complying with Section 1110.2.1 of the *International Building Code* portion of the Connecticut State Building Code shall be provided. At the inaccessible toilet rooms, directional signs indicating the location of the nearest accessible toilet room shall be provided. These directional signs shall include the International Symbol of Accessibility and sign characters shall meet the visual character requirements in accordance with ICC A117.1.

(Amd) **306.7.18.5 Bathing facilities.** Where bathing rooms are provided, not fewer than one accessible single-user bathing room or one accessible family or assisted-use bathing room complying with Section 1110.2.1 of the *International Building Code* portion of the Connecticut State Building Code shall be provided. At the inaccessible bathing rooms, directional signs indicating the location of the nearest accessible bathing room shall be provided. These directional signs shall include the International Symbol of Accessibility and sign characters shall meet the visual character requirements in accordance with ICC A117.1.

(Amd) **307.1 Smoke alarms in existing portions of a building.** Where an *addition or alteration* is made to a *building* or structure of a Group I-4 and E day care facilities, Group I-1 or R occupancy or when one or more sleeping rooms are added or created in existing *dwelling units*, the entire *dwelling unit* or *building* shall be provided with smoke detectors located as required for new *buildings*. Such smoke detectors within existing spaces may be battery operated and are not required to be dual-powered or interconnected unless other remodeling considerations require removal of wall and ceiling coverings which would facilitate concealed interconnected wiring.

(Amd) **308.1 Carbon monoxide alarms in existing portions of a building.** Where an *addition or alteration* is made to an *existing building* or structure, the *existing building* shall be provided with *carbon monoxide alarms* in accordance with Section 915.7 of the *International Building Code* portion of the Connecticut State Building Code.

Exceptions:

1. Work involving the exterior surfaces of *buildings*, such as the replacement of roofing or siding, the addition or replacement of windows or doors, or the addition of porches or decks.
2. Installation, *alteration or repairs* of plumbing or mechanical systems, other than fuel-burning appliances.
3. In Group I-2 occupancies, carbon monoxide detection is not required in each sleeping unit where carbon monoxide detection, which transmits an alarm signal to an *approved* location, is provided in each space containing a carbon monoxide source.

CHAPTER 5 – PRESCRIPTIVE COMPLIANCE METHOD

(Amd) **502.3 Existing structural elements carrying gravity load.** Any existing gravity load-carrying structural element for which an *addition* and its related *alterations* cause an increase in design dead, live or snow load, including snow drift effects, shall be replaced or altered as needed to carry the gravity loads required by the *International Building Code* portion of the Connecticut State Building Code for new structures. Any existing gravity load-carrying structural element whose load-carrying capacity is decreased as part of the *addition* and its related *alterations* shall be considered to be an altered element subject to the requirements of Section 503.3. Any existing element that will form part of the lateral load path for any part of the *addition* shall be considered to be an existing lateral load-carrying structural element subject to the requirements of Section 502.4. The increase in gravity loads or decrease in capacity shall account for the cumulative effects of the *additions* or *alterations* since original construction.

Exceptions:

1. *Buildings* of Group R occupancy with not more than five dwelling or sleeping units used solely for residential purposes where the *existing building* and the *addition* together comply with the conventional light-frame construction methods of the *International Building Code* portion of the Connecticut State Building Code or the provisions of the *International Residential Code* portion of the Connecticut State Building Code.
2. Structural elements whose demand-capacity ratio is not increased by more than 5-percent.

(Amd) **502.4 Existing structural elements carrying lateral load.** Where the *addition* is structurally independent of the *existing structure*, existing lateral load-carrying structural elements shall be permitted to remain unaltered. Where the *addition* is not structurally independent of the *existing structure*, the lateral force-resisting system of the *existing structure* and its *addition* acting together as a single structure shall comply with Section 1609 of the *International Building Code* portion of the Connecticut State Building Code and with Section 304.3.1 of this code.

Exceptions:

1. Any existing lateral load-carrying structural element whose demand-capacity ratio with the *addition* considered is not more than 10 percent greater than its demand-capacity ratio with the *addition* ignored shall be permitted to remain unaltered. For purposes of calculating demand-capacity ratios, the demand shall consider applicable load combinations with design lateral loads or forces in accordance with Sections 1609 and 1613 of the *International Building Code* portion of the Connecticut State Building Code. For purposes of this exception, comparisons of demand-capacity ratios and calculation of design lateral loads, forces and capacities shall account for the cumulative effects of *additions* and *alterations* since original construction. When calculating demand-capacity ratios for wind, the date of original construction shall be permitted to be taken as the date of issuance of a building *permit* for a prior *addition, alteration or repair* to the portion of the structure under consideration that brought the lateral force-resisting system in that portion of the structure into compliance with the wind loading provisions of the building code in effect at the time of permit application. When calculating demand-capacity ratios for earthquake, the date of original construction shall be permitted to be taken as the date of issuance of a building *permit* for a prior *addition, alteration or repair* to the portion of the structure under consideration that brought the lateral force-resisting system in that portion of the structure into compliance with the full seismic force requirements prescribed by the building code in effect at that time or Section 304.3.1 of this code.
2. Buildings of Group R occupancy with not more than five dwelling or sleeping units used solely for residential purposes where the *existing building* and the *addition* together comply with the conventional light-frame construction methods of the *International Building Code* portion of the Connecticut State Building Code or the provisions of the *International Residential Code* portion of the Connecticut State Building Code.

(Amd) **503.1 General.** *Alterations* to any *building* or structure shall comply with the requirements of the *International Building Code* portion of the Connecticut State Building Code for new construction. *Alterations* shall be such that the *existing building* or structure is not less complying with the provisions of the *International Building Code* portion of the Connecticut State Building Code than the *existing building* or structure was prior to the *alteration*, except that the structural elements need only comply with Sections 503.2 through 503.12.

Exceptions:

1. Any stairway replacing an existing stairway within a space where the pitch or slope cannot be reduced because of existing construction shall not be required to comply with Section 1011.5.2 of the *International Building Code* portion of the Connecticut State Building Code.
2. Handrails otherwise required to comply with Section 1011.11 of the *International Building Code* portion of the Connecticut State Building Code shall not be required to comply with the requirements of Section 1014.7 of the *International Building Code* portion of the Connecticut State Building code regarding full extension of the handrails where such extensions would be hazardous because of plan configuration.
3. Where provided in below-grade transportation stations, existing and new escalators shall be permitted to have a clear width of less than 32 inches (815 mm).

(Amd) **503.3 Existing structural elements carrying gravity load.** Any existing gravity load-carrying structural element for which an *alteration* causes an increase in design dead, live or snow load, including snow drift effects, shall be replaced or altered as needed to carry the gravity loads required by the *International Building Code* portion of the Connecticut State Building Code for new structures. Any existing gravity load-carrying structural element whose gravity load-carrying capacity is decreased as part of the *alteration* shall be shown to have the capacity to resist the applicable design dead, live and snow loads including snow drift effects required by the *International Building Code* portion of the Connecticut State Building Code for new structures. The increase in gravity loads or decrease in capacity shall account for the cumulative effects of the *additions* or *alterations* since original construction.

Exceptions:

1. *Buildings* of Group R occupancy with not more than five dwelling or sleeping units used solely for residential purposes where the altered building complies with the conventional light-frame construction methods of the *International Building Code* portion of the Connecticut State Building Code or the provisions of the *International Residential Code* portion of the Connecticut State Building Code.
2. *Buildings* in which the increased dead load is due entirely to the addition of a second layer of roof covering weighing 3 pounds per square foot (0.1437 kN/m^2) or less over an existing single layer of roof covering.
3. Structural elements whose demand-capacity ratio is not increased by more than 5-percent.

(Amd) **503.4 Existing structural elements carrying lateral load.** Except as permitted by Section 503.13, where the *alteration* increases design lateral loads, results in a prohibited structural irregularity as defined in ASCE 7, or decreases the capacity of any existing lateral load-carrying structural element, the lateral force-resisting system of the altered *building* or structure shall meet the requirements of Section 1609 of the *International Building Code* portion of the Connecticut State Building Code and Section 304.3.2 of this code.

Exceptions:

1. Any existing lateral load-carrying structural element whose demand-capacity ratio with the *alteration* considered is not more than 10 percent greater than its demand-capacity ratio with the *alteration* ignored shall be permitted to remain unaltered. For purposes of calculating demand-capacity ratios, the demand shall consider applicable load combinations with design lateral loads or forces in accordance with Section 1609 of the *International Building Code* portion of the Connecticut State Building Code and Section 304.3.1 or 304.3.2 of this

code. The same methodology shall be used for the altered and unaltered structures. For purposes of this exception, comparisons of demand-capacity ratios and calculation of design lateral loads, forces and capacities shall account for the cumulative effects of *additions* and *alterations* since original construction. When calculating demand-capacity ratios for wind, the date of original construction shall be permitted to be taken as the date of issuance of a building *permit* for a prior *addition, alteration or repair* to the portion of the structure under consideration that brought the lateral force-resisting system in that portion of the structure into compliance with the wind loading provisions of the building code in effect at the time of permit application. When calculating demand-capacity ratios for earthquake, the date of original construction shall be permitted to be taken as the date of issuance of a building *permit* for a prior *addition, alteration or repair* to the portion of the structure under consideration that brought the lateral force-resisting system in that portion of the structure into compliance with the full or reduced seismic force requirements prescribed by the building code in effect at that time of permit application; Section 304.3.1; or Section 304.3.2 of this code, Item 1 or 3.

2. *Buildings* in which the increase in the demand-capacity ratio is due entirely to the addition of rooftop-supported mechanical equipment individually having an operating weight less than 400 pounds (181.4 kg) and where the total additional weight of all rooftop equipment placed after initial construction of the *building* is less than 10 percent of the roof dead load. For purposes of this exception, “*roof*” shall mean the roof level above a particular story.
3. Increases in the demand-capacity ratio due to lateral loads from seismic forces need not be evaluated for the installation of rooftop *photovoltaic panel systems* where the additional roof dead load due to the system, including ballast where applicable, does not exceed 5 pounds per square foot (psf) (0.2394 kN/m²) and does not exceed 10 percent of the dead load of the existing roof.

(Del) **503.12 Roof diaphragms resisting wind loads in high-wind regions.** Delete section in its entirety.

(Amd) **506.3 Stairways.** An existing stairway, or any stairway replacing an existing stairway, shall not be required to comply with the requirements of Section 1011.5.2 of the *International Building Code* portion of the Connecticut State Building Code where the existing space and construction does not allow a reduction in pitch or slope.

CHAPTER 7 – ALTERATIONS – LEVEL 1

(Amd) **702.7.1 International Fuel Gas Code.** The *International Fuel Gas Code* is not adopted by the state of Connecticut. Any references to the *International Fuel Gas Code* within the body of this code shall be considered references to the requirements of NFPA 2, *Hydrogen Technologies Code*, NFPA 54, *National Fuel Gas Code* and NFPA 58, *Liquefied Petroleum Gas Code*, as incorporated in the Connecticut State Fire Safety and the Connecticut State Fire Prevention Codes. These requirements apply to liquid petroleum storage systems, gas piping systems extending from the point of delivery to the inlet connections of appliances, the installation and operation of residential and commercial gas appliances and related accessories as covered by this code.

(Add) **704.4 Minimum standards.** In addition to the requirements of this code, *means of egress in existing buildings* shall meet the requirements of the Connecticut State Fire Safety Code for the proposed occupancy.

(Del) **706.3.2 Roof diaphragms resisting wind loads in high-wind regions.** Delete section in its entirety.

CHAPTER 8 – ALTERATIONS – LEVEL 2

(Amd) **802.2.1 Existing vertical openings.** Existing interior vertical openings connecting two or more floors shall be enclosed with *approved* assemblies having a fire-resistance rating of not less than 1 hour with *approved* opening protectives.

Exceptions:

1. Where vertical opening enclosure is not required by the *International Building Code* or the *International Fire Code*.
2. Interior vertical openings other than stairways may be blocked at the floor and ceiling of the *work area* by installation of not less than 2 inches (51 mm) of solid wood or equivalent construction.
3. The enclosure shall not be required where:
 - 3.1. Connecting the main floor and mezzanines; or
 - 3.2. All of the following conditions are met:
 - 3.2.1. The communicating area has a low-hazard occupancy or has a moderate-hazard occupancy that is protected throughout by an automatic sprinkler system.
 - 3.2.2. The lowest or next-to-the-lowest level is a street floor.
 - 3.2.3. The entire area is open and unobstructed in a manner such that it is reasonable to assume that a fire in any part of the interconnected spaces will be readily obvious to all of the occupants.
 - 3.2.4. *Exit* capacity is sufficient to provide egress simultaneously for all occupants of all levels by considering all areas to be a single floor area for the determination of required *exit* capacity.
 - 3.2.5. Each floor level, considered separately, has not less than one-half of its individual required *exit* capacity provided by an *exit* or *exits* leading directly out of that level without having to traverse another communicating floor level or be exposed to the smoke or fire spreading from another communicating floor level.
 4. In Group E occupancies, the enclosure shall not be required for vertical openings not exceeding three stories where the *building* is protected throughout by an *approved* automatic fire sprinkler system.
 5. In Group F occupancies, the enclosure shall not be required in the following locations:
 - 5.1. Vertical openings not exceeding three stories.
 - 5.2. Special-purpose occupancies where necessary for manufacturing operations and direct access is provided to not fewer than one protected stairway.
 - 5.3. *Buildings* protected throughout by an *approved* automatic sprinkler system.
 6. In Group H occupancies, the enclosure shall not be required for vertical openings not exceeding three stories where necessary for manufacturing operations and every floor level has direct access to not fewer than two remote enclosed stairways or other *approved* *exits*.
 7. One- and two-family dwellings.
 8. Group S occupancies where connecting not more than two floor levels or where connecting not more than three floor levels and the structure is equipped throughout with an *approved* automatic sprinkler system.
 9. Group S occupancies where vertical opening protection is not required for open parking garages and ramps.

(Amd) **804.2 General.** The *means of egress* shall comply with the requirements of this section.

Exception: Where the *work area* and the *means of egress* serving it complies with the Connecticut State Fire Safety Code.

(Amd) **804.5.3 Main Entrance – Group A.** In Group A occupancies renovated or altered to increase capacity 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*. The remaining *exits* shall be capable of providing at least one-half of the total required *exit* capacity.

Exception: In assembly occupancies where there is no well-defined main entrance and main *exit* or where multiple main entrances and main *exits* are provided, *exits* shall be permitted to be distributed around the perimeter of the *building* or space containing the assembly occupancy, provided the total width of egress is not less than 100 percent of the required width.

(Amd) **804.11 Stairways.** An existing stairway, or any stairway replacing an existing stairway, shall not be required to comply with the requirements of Section 1011.5.2 of the *International Building Code* portion of the Connecticut State Building Code where the existing space and construction does not allow a reduction in pitch or slope.

(Amd) **804.13.1 Minimum requirement.** Flights of stairways serving occupied portions of any *work area* and that has three or more risers and is not provided with not fewer than one handrail, or in which the existing handrails are judged to be in danger of collapsing, shall be provided with handrails for the full length of the stairway on not fewer than one side. Stairways with a width of more than 66 inches (1676 mm) shall have handrails on both sides.

(Amd) **805.2 Existing structural elements carrying gravity load.** Any existing gravity load-carrying structural element for which an *alteration* causes an increase in design dead, live or snow load, including snow drift effects, shall be replaced or altered as needed to carry the gravity loads required by the *International Building Code* portion of the Connecticut State Building Code for new structures. Any existing gravity load-carrying structural element whose gravity load-carrying capacity is decreased as part of the *alteration* shall be shown to have the capacity to resist the applicable design dead, live and snow loads, including snow drift effects, required by the *International Building Code* portion of the Connecticut State Building Code for new structures. The increase in gravity loads or decrease in capacity shall account for the cumulative effects of the *additions* or *alterations* since original construction.

Exceptions:

1. *Buildings* of Group R occupancy with not more than five dwelling or sleeping units used solely for residential purposes where the altered *building* complies with the conventional light-frame construction methods of the *International Building Code* portion of the Connecticut State Building Code or the provisions of the *International Residential Code* portion of the Connecticut State Building Code.
2. Buildings in which the increased dead load is attributable to the addition of a second layer of roof covering weighing 3 pounds per square foot (0.1437 kN/m²) or less over an existing single layer of roof covering.
3. Structural elements whose demand-capacity ratio is not increased by more than 5-percent.

(Amd) **805.3 Existing structural elements resisting lateral loads.** Except as permitted by Section 805.4, where the *alteration* increases design lateral loads, or where the *alteration* results in prohibited structural irregularity, as defined in ASCE 7, or where the *alteration* decreases the capacity of any existing lateral load-carrying structural element, the lateral force-resisting system of the altered *building* or structure shall meet the requirements of Section 1609 of the *International Building Code* portion of the Connecticut State Building Code and Section 304.3.2 of this code.

Exceptions:

1. Any existing lateral load-carrying structural element whose demand-capacity ratio with the *alteration* considered is not more than 10 percent greater than its demand-capacity ratio with the *alteration* ignored shall be permitted to remain unaltered. For purposes of calculating

demand-capacity ratios, the demand shall consider applicable load combinations with design lateral loads or forces in accordance with Section 1609 of the *International Building Code* portion of the Connecticut State Building Code and Section 304.3.1 or 304.3.2 of this code. The same methodology shall be used for the altered and unaltered structures. For purposes of this exception, comparisons of demand-capacity ratios and calculation of design lateral loads, forces and capacities shall account for the cumulative effects of *additions* and *alterations* since original construction. When calculating demand-capacity ratios for wind, the date of original construction shall be permitted to be taken as the date of issuance of a building *permit* for a prior *addition, alteration or repair* to the portion of the structure under consideration that brought the lateral force-resisting system in that portion of the structure into compliance with the wind loading provisions of the building code in effect at the time of permit application. When calculating demand-capacity ratios for earthquake, the date of original construction shall be permitted to be taken as the date of issuance of a building *permit* for a prior *addition, alteration or repair* to the portion of the structure under consideration that brought the lateral force-resisting system in that portion of the structure into compliance with the full or reduced seismic force requirements prescribed by the building code in effect at that time of permit application; Section 304.3.1; or Section 304.3.2 of this code, Item 1 or 3.

2. *Buildings* in which the increase in the demand-capacity ratio is due entirely to the addition of rooftop-supported mechanical equipment individually having an operating weight less than 400 pounds (181.4 kg) and where the total additional weight of all rooftop equipment placed after initial construction of the *building* is less than 10 percent of the roof dead load. For purposes of this exception, “*roof*” shall mean the roof level above a particular story.
3. Increases in the demand-capacity ratio due to lateral loads from seismic forces need not be evaluated for the installation of rooftop *photovoltaic panel systems* where the additional roof dead load due to the system, including ballast where applicable, does not exceed 5 pounds per square foot (psf) (0.2394 kN/m²) and does not exceed 10 percent of the dead load of the existing roof.

CHAPTER 9 – ALTERATIONS – LEVEL 3

(Add) **903.5 Minimum broadband infrastructure.** Pursuant to section 16-330f of the Connecticut General Statutes, infrastructure shall be provided to support broadband Internet service access in commercial or multifamily buildings undergoing a Level 3 *alteration*. The infrastructure shall include a designated area for a broadband Internet access service provider to connect to the *building* and a technology plan to distribute the broadband signal throughout the *building*.

Exception: Detached one- and two-family dwellings and multiple single-family dwellings (townhouses).

(Del) **906.3 Seismic Design Category F.** Delete without substitution.

CHAPTER 10 – CHANGE OF OCCUPANCY

(Add) **1005.2 Main Entrance – Group A.** In Group A occupancies created by a *change of occupancy* 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*. The remaining *exits* shall be capable of providing at least one-half of the total required *exit* capacity.

Exception: In assembly occupancies where there is no well-defined main entrance and main *exit* or where multiple main entrances and main *exits* are provided, *exits* shall be permitted to be

distributed around the perimeter of the *building* or space containing the assembly occupancy, provided the total width of egress is not less than 100 percent of the required width.

(Amd) **1011.2.1 Automatic sprinkler system.** The installation of an automatic sprinkler system shall be required where there is a *change of occupancy* classification and Chapter 9 of the *International Building Code* portion of the Connecticut State Building Code requires an automatic sprinkler system based on the new occupancy or where there is a *change of occupancy* within the space where there is a different fire protection system threshold requirement in Chapter 9 of the *International Building Code* portion of the Connecticut State Building Code than exists in the current *building* or space. The installation of the automatic sprinkler system shall be required throughout the *building* or within the area of the *change of occupancy* and areas of the *building* not separated horizontally and vertically from the change of occupancy by a nonrated permanent partition and horizontal assemblies, fire partition, smoke partition, smoke barrier, fire barrier or fire wall.

Exceptions:

1. An automatic sprinkler system shall not be required in a one- or two-family dwelling constructed in accordance with the *International Residential Code* portion of the Connecticut State Building Code.
2. An automatic sprinkler system shall not be required in a townhouse constructed in accordance with the *International Residential Code* portion of the Connecticut State Building Code.
3. The townhouse shall be separated from adjoining units in accordance with Section R302.2 of the *International Residential Code* portion of the Connecticut State Building Code.

(Amd) **1011.2.2 Fire alarm and detection system.** Where a change in occupancy classification occurs or where there is a *change of occupancy* within a space where there is a different fire protection system threshold requirement in Chapter 9 of the *International Building Code* portion of the Connecticut State Building Code than exists in the current *building* or space that requires a fire alarm and detection system to be provided based on the new occupancy in accordance with Chapter 9 of the *International Building Code* portion of the Connecticut State Building Code, such system shall be provided throughout the building or the area where the *change of occupancy* occurs. Existing alarm notification appliances shall be automatically activated throughout the *building*. Where the *building* is not equipped with a fire alarm system, alarm notification appliances shall be provided throughout the area where the *change of occupancy* occurs in accordance with Section 907 of the *International Building Code* portion of the Connecticut State Building Code as required for new construction.

(Amd) **1011.5.1 Means of egress for change to a higher-hazard category.** Where a *change of occupancy* classification is made to a higher-hazard category (lower number) as shown in Table 1011.5, the *means of egress* shall comply with the requirements of Chapter 10 of the *International Building Code* portion of the Connecticut State Building Code.

Exceptions:

1. Existing handrails and guards complying with the requirements of Chapter 9 shall be permitted for continued use subject to approval of the code official.
2. Any stairway replacing an existing stairway within a space where the pitch or slope cannot be reduced because of existing construction shall not be required to comply with the maximum riser height and minimum tread depth requirements.
3. Existing corridor walls constructed on both sides of wood lath and plaster in good condition or $\frac{1}{2}$ -inch-thick (12.7 mm) gypsum wallboard shall be permitted. Such walls shall either terminate at the underside of a ceiling of equivalent construction or extend to the underside of the floor or roof next above.
4. Existing corridor doorways, transoms and other corridor openings shall comply with the requirements in Sections 804.7.1, 804.7.2 and 804.7.3.
5. Existing dead-end corridors shall comply with the requirements in Section 804.8.

6. An operable window complying with Section 1011.5.6 shall be accepted as an *emergency escape and rescue opening*.
7. In Group I-1 and I-2 facilities, required guards enclosing the *occupiable roof* areas shall be permitted to be greater than 48 inches (1219 mm) above the surface of the *occupiable roof* where the occupants, because of clinical needs, require restraint or containment as part of a function of a psychiatric or cognitive treatment area.

(Amd) **1011.6.3 Fire barriers.** Where a *change of occupancy* classification is made to a higher-hazard category as shown in Table 1011.6, fire barriers in separated mixed use *buildings* shall comply with the fire-resistance requirements of the *International Building Code* portion of the Connecticut State Building Code.

Exception: Where the fire barriers are required to have a 1-hour fire-resistance rating, existing wood lath and plaster in good condition shall be permitted.

CHAPTER 11 – ADDITIONS

(Amd) **1103.1 Existing structural elements carrying gravity load.** Any existing gravity load-carrying structural element for which an *addition* and its related *alterations* cause an increase in design dead, live or snow load, including snow drift effects, shall be replaced or altered as needed to carry the gravity loads required by the *International Building Code* portion of the Connecticut State Building Code for new structures. Any existing gravity load-carrying structural element whose gravity load-carrying capacity is decreased as part of the *addition* and its related *alterations* shall be considered to be an altered element subject to the requirements of Section 805.2. Any existing element that will form part of the lateral load path for any part of the *addition* shall be considered to be an existing lateral load-carrying structural element subject to the requirements of Section 1103.2. The increase in gravity loads or decrease in capacity shall account for the cumulative effects of the *additions* or *alterations* since original construction.

Exceptions:

1. *Buildings* of Group R occupancy with not more than five *dwelling units* or sleeping units used solely for residential purposes where the *existing building* and the *addition* together comply with the conventional light-frame construction methods of the *International Building Code* portion of the Connecticut State Building Code or the provisions of the *International Residential Code* portion of the Connecticut State Building Code.
2. Structural elements whose demand-capacity ratio is not increased by more than 5-percent.

(Amd) **1103.2 Lateral force-resisting system.** Where the *addition* is structurally independent of the *existing structure*, existing lateral load-carrying structural elements shall be permitted to remain unaltered. Where the *addition* is not structurally independent of the *existing structure*, the lateral force-resisting system of the *existing structure* and its *addition* acting together as a single structure shall comply with Section 1609 of the *International Building Code* portion of the Connecticut State Building Code and Section 304.3.1 of this code.

Exceptions:

1. *Buildings* of Group R occupancy with not more than five dwelling or sleeping units used solely for residential purposes where the *existing building* and the *addition* comply with the conventional light-frame construction methods of the *International Building Code* portion of the Connecticut State Building Code or the provisions of the *International Residential Code* portion of the Connecticut State Building Code.
2. Any existing lateral load-carrying structural element whose demand-capacity ratio with the *addition* considered is not more than 10 percent greater than its demand-capacity ratio with the *addition* ignored shall be permitted to remain unaltered. For purposes of calculating demand-capacity ratios, the demand shall consider applicable load combinations with design

lateral loads or forces in accordance with Section 1609 of the *International Building Code* portion of the Connecticut State Building Code and Section 304.3.1 of this code. For purposes of this exception, comparisons of demand-capacity ratios and calculation of design lateral loads, forces and capacities shall account for the cumulative effects of additions and alterations since original construction.

When calculating demand-capacity ratios for wind, the date of original construction shall be permitted to be taken as the date of issuance of a building *permit* for a prior *addition, alteration or repair* to the portion of the structure under consideration that brought the lateral force-resisting system in that portion of the structure into compliance with the wind loading provisions of the building code in effect at the time of permit application. When calculating demand-capacity ratios for earthquake, the date of original construction shall be permitted to be taken as the date of issuance of a building *permit* for a prior *addition, alteration or repair* to the portion of the structure under consideration that brought the lateral force-resisting system in that portion of the structure into compliance with the full seismic force requirements prescribed by the building code in effect at that time of permit application or Section 304.3.1 of this code.

CHAPTER 12 – HISTORIC BUILDINGS

(Add) **1201.1.1 Exemptions.** Pursuant to section 29-259 of the Connecticut General Statutes, exemptions may be granted from the provisions of this code for historic structures.

CHAPTER 13 – PERFORMANCE COMPLIANCE METHODS

(Amd) **1302.1 Applicability.** *Existing buildings* or structures in which there is work involving *additions, alterations or changes of occupancy* shall be made to conform to the requirements of this chapter or the provisions of Chapters 6 through 12. The provisions of Sections 1302.1.1 through 1302.1.6 shall apply to existing occupancies that will continue to be, or are proposed to be, in Groups A, B, E, F, I-2, M, R and S. These provisions shall also apply to Group U occupancies where such occupancies are undergoing a *change of occupancy* or a partial *change in occupancy* with separations in accordance with Section 1302.1.2. These provisions shall not apply to *buildings* with occupancies in Group H, I-1, I-3 or I-4.

CHAPTER 16 – REFERENCED STANDARDS

(Amd) **NFPA** National Fire Protection Association
1 Batterymarch Park
Quincy, MA 02269-9101

| Standard reference number—year of publication | Title | Referenced in code section number |
|---|----------------------------|-----------------------------------|
| (Add) 02-23 | Hydrogen Technologies Code |101.7, 702.7.1 |
| (Add) 54-24 | National Fuel Gas Code |101.7, 702.7.1 |
| | | |

AMENDMENTS TO THE 2024 INTERNATIONAL PLUMBING CODE

CHAPTER 1 – SCOPE AND ADMINISTRATION

(Amd) **101.1 Title.** The 2024 *International Plumbing Code* as amended in this section shall be known as the 2024 *International Plumbing Code* portion of the 2026 Connecticut 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 erection, installation, alteration, *repairs*, relocation, replacement, addition to, use or maintenance of *plumbing* systems within the state of Connecticut. This code shall also regulate nonflammable medical gas, inhalation anesthetic, vacuum piping, nonmedical oxygen systems and sanitary and condensate vacuum collection systems. The installation of fuel gas distribution piping and equipment, fuel gas-fired *water heaters* and *water heater* venting systems shall be regulated in accordance with Section 101.2.2.

Exception: Detached one- and two-family dwellings and multiple single-family dwellings (townhouses) not more than three stories high with separate *means of egress* and their accessory *structures* shall comply with the *International Residential Code* portion of the Connecticut State Building Code.

(Amd) **101.2.1 Appendices.** The provisions of appendices B, C, D and E shall be considered part of this code.

Appendix B – Rates of rainfall for various cities

Appendix C – Structural safety

Appendix D – Degree day and design temperatures

Appendix E – Sizing of water piping systems

(Add) **101.2.2 Gas.** The *International Fuel Gas Code* is not adopted by the state of Connecticut. Any references to the *International Fuel Gas Code* within the body of this code shall be considered references to the requirements of NFPA 2, *Hydrogen Technologies Code*, NFPA 54, *National Fuel Gas Code* and NFPA 58, *Liquefied Petroleum Gas Code*, as adopted in the Connecticut State Fire Safety and the Connecticut State Fire Prevention Codes. These requirements apply to liquid petroleum storage systems, gas piping systems extending from the point of delivery to the inlet connections of appliances, the installation and operation of residential and commercial gas appliances and related accessories as covered by this code.

(Add) **101.2.3 Electrical.** The provisions of the NFPA 70, *National Electrical Code*, shall apply to the installation of electrical systems, including alterations, *repairs*, replacement, equipment, appliances, fixtures, fittings and appurtenances thereto.

(Amd) **102.6 Historic buildings.** Pursuant to section 29-259 of the Connecticut General Statutes, exemptions may be granted from the provisions of this code for historic *structures*, as described in section 10-410 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 such exemptions *shall* not affect the safe design, use or construction of such property. Exemptions shall be granted in accordance with Section 104.2.4 of the *International Building code* portion of the Connecticut State Building Code.

(Del) SECTION 103 – CODE COMPLIANCE AGENCY.

Delete subsections in their entirety and replace with the following:

(Add) **103.1 General.** Refer to Section 103 of the *International Building Code* portion of the Connecticut State Building Code – Enforcement Agency.

(Del) **SECTION 104 – DUTIES AND POWERS OF CODE OFFICIAL.**

Delete subsections in their entirety and replace with the following:

(Add) **104.1 General.** Refer to Section 104 of the *International Building Code* portion of the Connecticut State Building Code – Duties and Powers of Building Official.

(Amd) **105.1 When required.** Any *owner* or *owner's* 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 performed, shall first make application to the *building official* and obtain the required *permit*.

(Add) **105.2.1 State agencies, Connecticut Airport Authority, and Connecticut Port Authority exemption.** Pursuant to section 29-252a of the Connecticut General Statutes, a state agency, the Connecticut Airport Authority and the Connecticut Port Authority shall not be required to obtain a building *permit* from a local *building official*. A state agency or the applicable authority shall obtain a building *permit* for all buildings or alterations of existing buildings for which a building permit is required as described in section 29-252a of the Connecticut General Statutes from the State Building Inspector.

(Amd) **105.4 By whom application is made.** Pursuant to section 29-263 of the Connecticut General Statutes, an application for a *permit* shall be made by the *owner* or by the *owner's* authorized agent. If the *owner's* authorized agent is a licensed 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 *owner's* authorized agent is a corporate body, shall be stated in the application.

(Add) **105.4.1 Permit issuance to a home improvement contractor.** No *permit* shall be issued to a contractor who is required to be registered pursuant to chapter 400 of the Connecticut General Statutes, for work to be performed by such contractor, unless the name, business address and Department of Consumer Protection registration number of such contractor is clearly marked on the *permit* application, and the contractor has presented such contractor's certificate of registration as a home improvement contractor.

(Amd) **105.5 Permit issuance.** Pursuant to section 29-263 of the Connecticut General Statutes, 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 applicable laws, statutes, regulations and ordinances, the *building official* shall reject such application in writing, stating the reasons therefor. 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* therefor as soon as practicable.

(Amd) **106.2 Retention of construction documents.** The *building official* shall retain one set of *approved construction documents* for a period as set forth in the records/disposition schedule adopted pursuant to chapter 188 of the Connecticut General Statutes.

Exception: Pursuant to 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) **108.2 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 in the building department of the municipality for public view.

(Del) **108.4 Work commencing before permit issuance.** Delete section.

(Add) **111.2.6 Posting of required inspections.** A schedule of required inspections shall be compiled by the code official. The schedule shall be posted in the building department of the municipality for public view.

(Add) **111.5 Notification of inspection and testing results.** Notification as to passage or failure, in whole or in part, of any required inspection or test shall be made in writing by the *building official* or his duly authorized representative and shall be left at the job *site* or delivered to the *permit* holder. It shall be the duty of the *permit* holder to ascertain the results of required inspections.

(Del) **SECTION 112 MEANS OF APPEALS.**

Delete subsections in their entirety and replace with the following:

(Add) **112.1 General.** Refer to Section 113 of the *International Building Code* portion of the Connecticut State Building Code – Means of Appeal.

(Del) **SECTION 113 BOARD OF APPEALS.**

Delete subsections in their entirety and replace with the following:

(Add) **113.1 General.** Refer to Section 113 of the *International Building Code* portion of the Connecticut State Building Code – Means of Appeal.

(Add) **114.2.1 Written notice.** The notice of violation shall be in writing and shall be given to the *owner* of the property involved, or to the *owner*'s agent or to the person doing the work.

(Amd) **114.4 Violation penalties.** Pursuant to section 29-254a of the Connecticut General Statutes, any person who violates any provision of this code shall be fined not less than two hundred dollars nor more than one thousand dollars or imprisoned not more than six months, or both.

(Amd) **115.4 Failure to comply.** Any person who continues any work 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 114.4.

CHAPTER 2 – DEFINITIONS

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

(Amd) **SECTION 202 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. A *building official* may also be known as the *code official*.

(Amd) **CLEANOUT**. An access opening in the *drainage system* utilized for the removal of obstructions. Types of *cleanouts* include a removable plug or cap, and a removable fixture or fixture *trap*. Floor drains, floor sinks, mop sinks and roof drains are not acceptable *cleanouts*.

(Amd) **CODE OFFICIAL**. See *Building Official*.

(Amd) **PUBLIC SWIMMING POOL**. A *pool*, other than a *residential swimming pool*, as defined in section 19-13-B33b(a) of the Regulations of Connecticut State Agencies.

(Amd) **REGISTERED DESIGN PROFESSIONAL**. An individual who is registered or licensed by the Department of Consumer Protection pursuant to chapters 390, 391, 396 or 396a of Connecticut General Statutes to practice such individual's respective design profession and acting within the scope of his or her license or registration and practice discipline.

CHAPTER 3 – GENERAL REGULATIONS

(Add) **301.8 Electrical**. Electrical wiring, controls and connections to *equipment* and *appliances* regulated by this code shall be in accordance with NFPA 70, *National Electrical Code*.

(Amd) **305.4 Freezing water pipe**. A *water pipe* shall not be installed outside of a *building*, or concealed in outside walls or in any place subjected to freezing temperature, unless adequate provision is made to protect such pipe from freezing by insulation and heat. Exterior *water service pipe* shall be installed not less than 48 inches (1219 mm) deep.

(Amd) **305.4.1 Freezing soil or waste pipe**. A *soil pipe* or *waste pipe* shall not be installed outside of a *building*, or concealed in outside walls or in any place subjected to freezing temperature, unless adequate provision is made to protect such pipe from freezing by insulation or heat or both. Horizontal piping shall be protected by both insulation and heat.

(Amd) **307.2 Cutting, notching or bored holes**. A framing member shall not be cut, notched or bored in excess of limitations specified in the *International Building Code* portion of the Connecticut State Building Code.

(Del) **307.4 Penetrations of floor/ceiling assemblies and fire-resistance-rated assemblies**. Delete without substitution.

(Amd) **TABLE 308.5 HANGER SPACING**

| PIPING MATERIAL | MAXIMUM HORIZONTAL SPACING (feet) | MAXIMUM VERTICAL SPACING (feet) |
|--|-----------------------------------|---------------------------------|
| Acrylonitrile butadiene styrene (ABS) pipe | 4 | 10 ^b |
| Aluminum tubing | 10 | 15 |
| Brass pipe | 10 | 10 |
| Cast-iron pipe | 5 ^a | 15 |
| Chlorinated polyvinyl chloride (CPVC) pipe and tubing, 1 inch diameter and smaller | 3 | 10 ^b |

| | | |
|---|-------------------------------|--------------------|
| Chlorinated polyvinyl chloride (CPVC) pipe and tubing, 1 ¹ / ₄ inches diameter and larger | 4 | 10 ^b |
| Copper or copper-alloy pipe | 12 | 10 |
| Copper or copper-alloy tubing, 1 ¹ / ₄ -inch diameter and smaller | 6 | 10 |
| Copper or copper-alloy tubing, 1 ¹ / ₂ -inch diameter and larger | 10 | 10 |
| Cross-linked polyethylene (PEX) pipe, 1 inch diameter and smaller | 2.67 (32 inches) | 10 ^b |
| Cross-linked polyethylene (PEX) pipe, 1 ¹ / ₄ inch diameter and larger | 4 | 10 ^b |
| Cross-linked polyethylene/aluminum/cross-linked polyethylene (PEX-AL-PEX) pipe smaller than 1 inch diameter | 2.67 (32 inches) ^c | 10 ^{b, c} |
| Cross-linked polyethylene/aluminum/cross-linked polyethylene (PEX-AL-PEX) pipe 1 inch diameter and larger | 4 ^c | 10 ^{b, c} |
| Lead pipe | Continuous | 4 |
| Polyethylene/aluminum/polyethylene (PE-AL-PE) pipe | 2.67 (32 inches) | 4 |
| Polyethylene of raised temperature (PE-RT) pipe, 1 inch diameter and smaller | 2.67 (32 inches) | 10 ^b |
| Polyethylene of raised temperature (PE-RT) pipe, 1 ¹ / ₄ inches and larger | 4 | 10 ^b |
| Polypropylene (PP) pipe or tubing, 1 inch diameter and smaller | 2.67 (32 inches) ^c | 10 ^b |
| Polypropylene (PP) pipe or tubing, 1 ¹ / ₄ inch diameter and larger | 4 ^c | 10 ^b |
| Polyvinyl chloride (PVC) pipe | 4 | 10 ^b |
| Stainless steel drainage systems | 10 | 10 ^b |
| Steel pipe | 12 | 15 |

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

- The maximum horizontal spacing of cast-iron pipe hangers shall be increased to 10 feet where 10-foot lengths of pipe are installed.
- For sizes 2 inches and smaller, a guide shall be installed midway between required vertical supports. Such guides shall prevent pipe movement in a direction perpendicular to the axis of the pipe.
- The maximum horizontal or vertical spacing of PP, PP-RCT or PEX-AL-PEX pipe hangers shall be increased to the manufacturer's installation requirements based on the maximum operating temperatures design and the incorporation of pipe or tube supports per the manufacturer's requirements.

(Amd) **312.6 Water supply system test.** Upon completion of a section of or the entire water supply system, the system, or section completed, shall be tested and proved tight under a water pressure not less than the working pressure of the system; or, for piping systems other than plastic, by an air test of not less than 50 psi (344 kPa). This pressure shall be held for not less than 15 minutes. The water utilized for tests shall be obtained from a potable source of supply. The required tests shall be performed in accordance with this section and Section 111.

Exception: For PEX piping systems, testing with a compressed gas shall be an alternative to hydrostatic testing where compressed air or other gas pressure testing is specifically authorized by the manufacturer's instructions for the PEX pipe and fittings products installed at the time the

system is being tested, and compressed air or other gas testing is not otherwise prohibited by applicable codes, laws or regulations outside of this code.

(Del) **312.11.1 Inspections.** Delete section.

(Amd) **312.11.2 Testing.** Required reduced pressure principle, double check, pressure vacuum breaker, reduced pressure detector fire protection, double check detector fire protection, and spill-proof vacuum breaker backflow preventer assemblies and hose connection backflow preventers shall be tested at the time of installation by individuals or agencies qualified to perform such inspections. It shall be the responsibility of the *owner* to have such tests performed and copies of test reports shall be given to the local *building official*. The testing procedure shall be performed in accordance with one of the following standards: ASSE 5013, ASSE 5015, ASSE 5020, ASSE 5047, ASSE 5048, ASSE 5052, ASSE 5056, CSA B64.10 or CSA B64.10.1.

(Add) **312.11.2.1 Testing devices.** Testing of devices shall be in accordance with section 19-13-B38a of the Regulations of Connecticut State Agencies.

(Add) **314.1.2 Neutralization.** Liquid combustion by-products of condensing appliances shall be neutralized prior to being discharged.

CHAPTER 4 – FIXTURES, FAUCETS AND FIXTURE FITTINGS

(Amd) **403.1 Minimum number of fixtures.** Plumbing fixtures shall be provided in the minimum number shown in Table 403.1, based on the actual use of the *building* or space. Uses not shown in Table 403.1 shall be considered individually by the *building official*. The number of occupants shall be determined in accordance with the *International Building Code* portion of the Connecticut State Building Code.

Exceptions:

1. The following minimum fixtures shall be provided in *Group R-1 bed and breakfast establishments*: Water closets – one per two *guestrooms*; lavatories – one per two *guestrooms*; bathtubs or showers – one per two *guestrooms*. Plumbing fixtures in *Group R-1 bed and breakfast establishments* shall be permitted to be accessed from hallways and *corridors* and to be shared by guests.
2. Child washing and *diaper changing tables* shall be permitted in lieu of bathtubs or showers in Group I-4 child care occupancies.

(Amd) **TABLE 403.1 MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES.** Remove reference to footnote f. from row for Assembly, Stadiums, amusement parks, bleachers and grandstands for outdoor sporting events and activities.

(Del) **Footnote f., TABLE 403.1 MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES.** Delete footnote.

(Add) **403.7 Diaper changing tables.** Pursuant to section 29-256e of the Connecticut General Statutes, each new construction or substantial renovation of a public building, as defined in section 1-1 of the Connecticut General Statutes, or place of public accommodation, resort or amusement, as defined in section 46a-63 of the Connecticut General Statutes, that includes at least one restroom that is open to the public *shall* provide on each floor level that is open to the public:

1. At least one baby *diaper changing table* that is *accessible* to men and at least one baby *diaper changing table* that is *accessible* to women, or
2. At least one baby *diaper changing table* that is *accessible* to both men and women.

(Amd) **410.4 Substitution.** Where restaurants provide drinking water in a container free of charge, drinking fountains shall not be required in those restaurants. In other occupancies, permanently installed bottle filling stations may be substituted for up to 2/3rds of the required drinking fountains. The bottle filling station shall be installed in accordance with ICC A117.1.

(Add) **413.5 Connection required.** Floor drains shall connect to the *sanitary sewer* system or to an on-site holding tank(s) when the discharge contains petroleum-based oil, grease, sand or other harmful or hazardous substances. Interceptors and separators shall be provided in accordance with Section 1003 when floor drains connect to the *sanitary sewer* system and shall be installed in accordance with regulations promulgated by the Department of Energy and Environmental Protection. Floor drains shall not be connected to a *storm sewer*, a storm *drainage system* or a storm *building drain*. Floor drains shall have *trap seals* in accordance with Section 1002.4.

(Amd) **419.6 Soap dispenser.** Permanently installed soap dispensers shall be provided for public lavatories.

CHAPTER 5 – WATER HEATERS

(Amd) **504.6 Requirements for discharge piping.** Amend item 10. as follows:

10. Terminate not more than 6 inches (152 mm) above and not less than two times the discharge pipe diameter above the floor or flood level rim of the waste receptor and cut at a 45-degree angle.

CHAPTER 6 – WATER SUPPLY AND DISTRIBUTION

(Add) **608.1.1. Connection to a public water supply system.** Connections to a public water supply system shall be in accordance with the Public Health Code of the State of Connecticut adopted pursuant to section 19a-36 of the Connecticut General Statutes and the requirements of the water system operator.

(Add) **608.1.2 Required Notification to water company and building official.** Pursuant to section 19a-37d of the Connecticut General Statutes:

1. Any person engaged in the installation of an irrigation system or other physical connection between the distribution system of a public water supply system and any other water system shall notify the water company servicing the property or *building* of such installation and shall be subject to all applicable rules and regulations of such water company. For purposes of this section, "water company" has the same meaning as provided in section 25-32a of the Connecticut General Statutes.
2. When a *permit* application is filed with the local building inspector of any municipality concerning any project that includes a change of use or installation of fixtures or facilities in a *building* that may affect the performance of, or require the installation of, a reduced pressure principle backflow preventer, a double check valve assembly or a pressure vacuum breaker, the local building inspector shall provide written notice of the application to the water company serving the *building* not later than seven days after the date the application is filed. Upon receipt of such written notice, the water company shall cause to be performed an evaluation of cross-connection protection by a person who has met the requirements prescribed in the Regulations of Connecticut State Agencies and such water company shall notify the local building inspector regarding its determination. The local building inspector shall not issue a permit or certificate of occupancy until any cross-connection issue has been corrected.
3. Upon a determination by a local director of health that an automatic fire extinguishing system, irrigation system, change of use, installation of fixtures or facilities in a *building* or other physical connection between the distribution system of a public water supply system and any

other water system creates an unreasonable risk of injury to the health or safety of persons using the water, to the general public, or to any public water supply, the local director of public health may issue an order requiring the immediate implementation of mitigation measures that include, but are not limited to, the disconnection of the system. In the event that a cross-connection with the public water system is found, the owner of such system may terminate services to the premises.

(Amd) **608.17 Connections to the potable water system.** Connections to the potable water system shall conform to Sections 608.17.1 through 608.17.10 and be in accordance with the Public Health Code of the state of Connecticut adopted pursuant to section 19a-36 of the Connecticut General Statutes.

(Amd) **608.18 Protection of individual water supplies.** An individual water supply shall be located and constructed so as to be safeguarded against contamination in accordance with the Public Health Code of the State of Connecticut adopted pursuant to section 19a-36 of the Connecticut General Statutes.

(Del) **608.18.1 through 608.18.8.** Delete subsections and referenced table.

CHAPTER 7 – SANITARY DRAINAGE

(Amd) **708.1.1 Horizontal drains and building drains.** Horizontal drainage pipes, including *horizontal branch drains* consisting of one or more fixtures, in *buildings* shall have *cleanouts* located at intervals of not more than 100 feet (30,480 mm). *Building drains* shall have *cleanouts* located at intervals of not more than 100 feet (30,480 mm) except where manholes are used instead of *cleanouts*, the manholes shall be located at intervals of not more than 400 feet (122 m). The interval length shall be measured from the *cleanout* or manhole opening, along the *developed length* of the piping to the next *drainage fitting* providing access for cleaning, the end of the horizontal drain or the end of the *building drain*. Floor drains, floor sinks, mop sinks, and roof drains are not acceptable *cleanouts*.

Exception: Horizontal *fixture drain* piping serving a non-removable *trap* shall not be required to have a *cleanout* for the section of piping between the *trap* and the connection to a horizontal or vertical drain if located within 4 feet (1219 mm) of *developed length* of such connection. The 4 feet (1219 mm) shall be measured from the fixture *trap* weir to the connection at the horizontal or vertical piping.

CHAPTER 9 – VENTS

(Amd) **903.1.1 Roof extension unprotected.** Open *vent pipes* that extend through a roof shall be terminated not less than 12 inches (305 mm) above the roof.

(Del) **903.2 Frost closure.** Delete section.

CHAPTER 10 – TRAPS, INTERCEPTORS AND SEPARATORS

(Amd) **1003.3 Grease interceptors.** Grease interceptors that serve plumbing systems connected to private, on-site septic systems shall comply with the requirements of Sections 1003.3.1 through 1003.3.5, and the Public Health Code adopted pursuant to section 19a-36 of the Connecticut General Statutes. Grease interceptors that serve plumbing systems connected via a *sanitary sewer* to a publicly owned treatment works shall comply with the Department of Energy and Environmental Protection's General Permit for the Discharge of Wastewater Associated with Food Preparation Establishments.

CHAPTER 11 – STORM DRAINAGE

(Amd) **1106.1 General.** The size of the components of the primary drainage system, including vertical conductors and leaders, building storm drains, building storm sewers and any horizontal branches of such drains or sewers shall be based on the 100-year/1-hour duration rainfall rate and shall be 3 inches (76.2 mm). The size of the components for the secondary (emergency overflow) roof drainage system and scuppers shall be based on the 15-minute duration storm with the return period given in Table 1106.1.

(Add) **TABLE 1106.1**

DESIGN 15-MINUTE DURATION STORM RAINFALL INTENSITY BY RISK CATEGORY

| RISK CATEGORY | DESIGN STORM RETURN PERIOD | RAINFALL INTENSITY (inches/hour) |
|---------------|----------------------------|----------------------------------|
| I & II | 100 years | 6.50 |
| III | 200 years | 7.25 |
| IV | 500 years | 8.50 |

(Del) **FIGURES 1106.1(1) through (5) 100-YEAR, 1-HOUR RAINFALL (INCHES).** Delete figures.

(Amd) **1108.3 Sizing of secondary drains.** Secondary (emergency) roof drain systems shall be sized in accordance with Section 1106. Scuppers shall be sized to prevent the depth of ponding water from exceeding that for which the roof was designed as determined by Section 1101.7. Scuppers shall have an opening dimension of not less than 4 inches (102 mm) in height and have an opening width equal to the circumference of the roof drain required for the area served. The flow through the primary system shall not be considered when sizing the secondary roof drain system.

CHAPTER 12 – SPECIAL PIPING AND STORAGE SYSTEMS

(Amd) **1201.1 Scope.** The provisions of this chapter shall govern the design and installation of piping and storage systems for non-flammable medical gas systems and non-medical oxygen systems. All maintenance and operation of such systems shall be in accordance with the Connecticut State Fire Prevention Code.

(Amd) CHAPTER 14 – SUBSURFACE LANDSCAPE IRRIGATION SYSTEMS

(Del) **Sections 1401 through 1403.** Delete sections, subsections and tables and replace with the following:

(Add) **1401.1 General.** Subsurface landscape irrigation systems shall comply with the Public Health Code adopted pursuant to section 19a-36 of the Connecticut General Statutes.

CHAPTER 15 – REFERENCED STANDARDS

(Amd) **NFPA** National Fire Protection Association
1 Batterymarch Park
Quincy, MA 02269-9101

| Standard reference number—year of publication | Title | Referenced in code section number |
|---|----------------------------|-----------------------------------|
| (Add) 02-23 | Hydrogen Technologies Code | 101.2.2 |
| (Add) 54-24 | National Fuel Gas Code |101.2.2 |

(Del) **APPENDIX A – PLUMBING PERMIT FEE SCHEDULE.** Delete appendix.

(Del) **APPENDIX F – BOARD OF APPEALS.** Delete appendix.

AMENDMENTS TO THE 2024 INTERNATIONAL MECHANICAL CODE

CHAPTER 1 – SCOPE AND ADMINISTRATION

(Amd) **101.1 Title.** The 2024 *International Mechanical Code* as amended in this section shall be known as the 2024 *International Mechanical Code* portion of the 2026 Connecticut State Building Code, hereinafter referred to as “the code” or “this code”.

(Amd) **101.2 Scope.** This code shall regulate the design, installation, maintenance, *alteration* and inspection of mechanical systems that are permanently installed and utilized to provide control of environmental conditions and related processes within *buildings*. This code shall also regulate those mechanical systems, system components, equipment and *appliances* specifically addressed in this code. The installation of *fuel gas* distribution piping and equipment, fuel-gas-fired *appliances* and fuel-gas-fired *appliance venting systems* shall be in accordance with Section 101.2.2.

Exception: Detached one- and two-family *dwellings* and townhouses not more than three stories above grade plane in height with a separate *means of egress* and their accessory structures not more than three stories above grade plane in height shall comply with either this code or the *International Residential Code* portion of the Connecticut State Building Code.

(Amd) **101.2.1 Appendices.** The provisions of Appendix A shall be considered applicable to the utilization of this code.

Appendix A – Chimney connector pass-through

(Add) **101.2.2 Gas.** The *International Fuel Gas Code* is not adopted by the state of Connecticut. Any references to the *International Fuel Gas Code* within the body of this code shall be considered references to the requirements of NFPA 2, *Hydrogen Technologies Code*, NFPA 54, *National Fuel Gas Code* and NFPA 58, *Liquefied Petroleum Gas Code*, as incorporated in the Connecticut State Fire Safety Code and the Connecticut State Fire Prevention Code. These requirements apply to liquid petroleum storage systems, gas piping systems extending from the point of delivery to the inlet connections of *appliances*, the installation and operation of residential and commercial gas *appliances* and related accessories as covered by this code.

(Add) **101.2.3 Oil-burning equipment, piping and storage.** In addition to the requirements of this code, the installation of oil burners, equipment, and *appliances* used in connection therewith, including tanks, piping, pumps, control devices and accessories shall comply with NFPA 31, *Standard for the Installation of Oil-Burning Equipment* as incorporated in the Connecticut State Fire Safety and the Connecticut State Fire Prevention Code.

(Add) **101.2.4 Electrical.** The provisions of NFPA 70, *National Electrical Code* portion of the Connecticut State Building Code, shall apply to the installation of electrical systems, including *alterations, repairs, replacement, equipment, appliances, fixtures, fittings and appurtenances thereto*.

(Add) **101.2.5 Fire prevention.** References to the *International Fire Code* within this code shall be considered references to the Connecticut State Fire Safety Code.

(Amd) **102.6 Historic buildings.** Pursuant to section 29-259 of the Connecticut General Statutes, exemptions may be granted from the provisions of this code for historic structures, as described in section 10-410 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. Exemptions shall be granted in accordance with Section 104.2.4 of the *International Building Code* portion of the Connecticut State Building Code.

(Del) **SECTION 103 – CODE COMPLIANCE AGENCY.**

Delete subsections in their entirety and replace with the following:

(Add) **103.1 General.** Refer to Section 103 of the *International Building Code* portion of the Connecticut State Building Code – Enforcement Agency.

(Del) **SECTION 104 – DUTIES AND POWERS OF CODE OFFICIAL.**

Delete subsections in their entirety and replace with the following:

(Add) **104.1 General.** Refer to Section 104 of the *International Building Code* portion of the Connecticut State Building Code – Duties and Powers of Building Official.

(Amd) **105.1 When required.** Any *owner* or *owner's* 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 performed, shall first make application to the *building official* and obtain the required *permit*.

(Add) **105.1.3 By whom application is made.** Pursuant to section 29-263 of the Connecticut General Statutes, an application for a *permit* shall be made by the *owner* or by the *owner's* authorized agent. If the authorized agent is a licensed contractor, the provisions of section 20-338b of the Connecticut General Statutes shall be followed. The full names and addresses of the *owner* or the *owner's* authorized agent and the responsible officers, if the *owner* or *owner's* authorized agent is a corporate body, shall be stated in the application.

(Add) **105.1.4 Permit issuance to a home improvement contractor.** No *permit* shall be issued to a contractor who is required to be registered pursuant to chapter 400 of the Connecticut General Statutes, for work to be performed by such contractor, unless the name, business address and Department of Consumer Protection registration number of such contractor is clearly marked on the application for *permit*, and the contractor has presented such contractor's certificate of registration as a home improvement contractor.

(Add) **105.2.1 State agency and Connecticut Airport Authority exemption.** Pursuant to section 29-252a of the Connecticut General Statutes, a state agency, the Connecticut Airport Authority and the Connecticut Port Authority shall not be required to obtain a building *permit* from a local *building official*. A state agency or the applicable authority shall obtain a building *permit* for all buildings or alterations of existing buildings for which a building *permit* is required, as described in section 29-252a of the Connecticut General Statutes, from the State Building Inspector.

(Amd) **105.4 Permit issuance.** Pursuant to section 29-263 of the Connecticut General Statutes, 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 applicable laws, statutes, regulations and ordinances, the *building official* shall reject such application in writing, stating the reasons therefor. 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* therefor as soon as practicable.

(Amd) **106.2 Retention of construction documents.** The *building official* shall retain one set of *approved construction documents* for a period as set forth in the records/disposition schedule adopted pursuant to chapter 188 of the Connecticut General Statutes.

Exception: Pursuant to 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) **108.2 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 in the building department of the municipality for public view.

(Del) **108.4 Work commencing before permit issuance.** Delete without substitution.

(Add) **111.2.6 Posting of required inspections.** A schedule of required inspections shall be compiled by the *code official* of the municipality. The schedule shall be posted in the building department of the municipality for public view.

(Add) **111.4 Notification of inspection and testing results.** Notification of the passage or failure, in whole or in part, of any required inspection or test shall be made in writing by the *building official* or his duly authorized representative and shall be left at the job *site* or delivered to the *permit holder*. It shall be the duty of the *permit holder* to ascertain the results of required inspections.

(Del) **SECTION 112 - MEANS OF APPEALS.**

Delete subsections in their entirety and replace with the following:

(Add) **112.1 General.** Refer to Section 113 of the *International Building Code* portion of the Connecticut State Building Code – Means of Appeal.

(Del) **SECTION 113 BOARD OF APPEALS.**

Delete subsections in their entirety and replace with the following:

(Add) **113.1 General.** Refer to Section 113 of the *International Building Code* portion of the Connecticut State Building Code – Means of Appeal.

(Add) **114.2.1 Written notice.** The notice of violation shall be in writing and shall be given to the *owner* of the property involved, or to the *owner's* authorized agent or to the person doing the work.

(Amd) **114.4 Violation penalties.** Pursuant to section 29-254a of the Connecticut General Statutes, any person who violates any provision of this code shall be fined not less than two hundred dollars nor more than one thousand dollars or imprisoned not more than six months, or both.

(Amd) **115.4 Failure to comply.** Any person who continues any work 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 114.4.

CHAPTER 2 – DEFINITIONS

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

(Amd) **SECTION 202 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. A *building official* may also be known as the *code official*.

(Amd) **CODE OFFICIAL.** See *Building Official*.

(Add) **LIMITED-COMBUSTIBLE MATERIAL.** A material shall be considered a limited-combustible material where both conditions 1 and 2 below and conditions 3 or 4 below are met.

Conditions:

1. The material is not defined as a *noncombustible material*.
2. The material, in the form in which it is used, exhibits a potential heat value not exceeding 3500 Btu/lb (8141 kJ/kg), when tested in accordance with NFPA 259, Standard Test Method for Potential Heat of Building Materials.
3. The material has a structural base of a *noncombustible material* with a surfacing not exceeding a thickness of 1/8 inch (3.2mm) where the surfacing exhibits a *flame spread* index not greater than 50 when tested in accordance with ASTM E 84, Standard Test Method for Surface Burning Characteristics of Building Materials, or ANSI/UL 723, Standard for Test for Surface Burning Characteristics of Building Materials.
4. The material is composed of materials that, in the form and thickness used, neither exhibit a *flame spread* index greater than 25 nor evidence of continued progressive combustion when tested in accordance with ASTM E 84 or ANSI/UL 723 and are of such composition that all surfaces that would be exposed by cutting through the material on any plane would neither exhibit a *flame spread* index greater than 25 nor exhibit evidence of continued progressive combustion when tested in accordance with ASTM E 84 or ANSI/UL 723.

(Amd) **REGISTERED DESIGN PROFESSIONAL.** An individual who is registered or licensed by the Department of Consumer Protection pursuant to chapters 390, 391, 396 or 396a of the Connecticut General Statutes to practice the individual's respective design profession and acting within the scope of his or her license or registration and practice discipline.

CHAPTER 3 – GENERAL REGULATIONS

(Amd) **301.1 Scope.** Except as may be otherwise regulated by Chapters 540 and 541 of the Connecticut General Statutes, or regulations of other state agencies, this chapter shall govern the approval and installation of all equipment and *appliances* that comprise parts of the *building* mechanical systems regulated by this code in accordance with Section 101.2.

(Amd) **301.6 Gas.** The *International Fuel Gas Code* is not adopted by the state of Connecticut. Any references to the *International Fuel Gas Code* within the body of this code shall be considered references to requirements of NFPA 2, *Hydrogen Technologies Code*, NFPA 54, *National Fuel Gas Code* and NFPA 58, *Liquefied Petroleum Gas Code*, as incorporated in the Connecticut State Fire Safety Code and the Connecticut State Fire Prevention Code. These requirements apply to liquid petroleum storage systems, gas piping systems extending from the point of delivery to the inlet connections of *appliances*, the

installation and operation of residential and commercial gas *appliances* and related accessories as covered by this code.

(Amd) **TABLE 305.4 PIPING SUPPORT SPACING^a**

| PIPING MATERIAL | MAXIMUM HORIZONTAL SPACING (feet) | MAXIMUM VERTICAL SPACING (feet) |
|--|--|---------------------------------|
| ABS pipe | 4 | 10 ^c |
| Aluminum pipe and tubing | 10 | 15 |
| Cast-iron pipe ^b | 5 | 15 |
| Copper or copper-alloy pipe | 12 | 10 |
| Copper or copper-alloy tubing | 8 | 10 |
| CPVC pipe or tubing, 1 inch diameter and smaller | 3 | 10 ^c |
| CPVC pipe or tubing, 1 ¹ / ₄ inch diameter and larger | 4 | 10 ^c |
| Lead pipe | Continuous | 4 |
| PB pipe or tubing | 2 ² / ₃ (32 inches) | 4 |
| PE-RT 1 inch diameter and smaller | 2 ² / ₃ (32 inches) | 10 ^c |
| PE-RT 1 ¹ / ₄ inch diameter and larger | 4 | 10 ^c |
| PEX tubing 1 inch diameter and smaller | 2 ² / ₃ (32 inches) | 10 ^c |
| PEX tubing 1 ¹ / ₄ inch diameter and larger | 4 | 10 ^c |
| Cross-linked polyethylene/aluminum/crosslinked polyethylene (PEX-AL-PEX) pipe smaller than 1 inch diameter | 2 ² / ₃ (32 inches) ^d | 10 ^c |
| Cross-linked polyethylene/aluminum/crosslinked polyethylene (PEX-AL-PEX) pipe 1 inch diameter and larger | 4 ^d | 10 ^c |
| Polypropylene (PP) pipe or tubing, 1 inch diameter and smaller | 2 ² / ₃ (32 inches) ^d | 10 ^c |
| Polypropylene (PP) pipe or tubing, 1 ¹ / ₄ inch diameter and larger | 4 ^d | 10 ^c |
| PVC pipe | 4 | 10 ^c |
| Steel pipe | 12 | 15 |
| Steel tubing | 8 | 10 |

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

- a. See Section 301.18.
- b. The maximum horizontal spacing of cast-iron pipe hangers shall be increased to 10 feet where 10-foot lengths of pipe are installed.
- c. Mid-story guide.
- d. The maximum horizontal or vertical spacing of PP, PP-RCT or PEX-AL-PEX pipe hangers shall be increased to manufacturer's installation requirements based on maximum operating temperature design and incorporation of pipe or tube supports per manufacturer requirements.

(Add) **307.1.2 Neutralization.** Liquid combustion by-products of condensing appliances shall be neutralized prior to being discharged.

CHAPTER 5 – EXHAUST SYSTEMS

(Amd) **505.4 Makeup air required.** Where one or more gas, liquid or solid fuel-burning *appliances* that are neither direct-vent nor use a mechanical draft venting system are located within a *dwelling unit*'s air barrier, each exhaust system capable of exhausting in excess of 400 cubic feet per minute (0.19 m³/s) shall be mechanically or passively provided with makeup air at a rate approximately equal to the exhaust air rate. Such makeup air systems shall be equipped with not fewer than one damper in accordance with Section 505.4.2.

Exceptions:

1. Makeup air is not required for exhaust systems installed for the exclusive purpose of space cooling and intended to be operated only when windows or other air inlets are open.
2. Where all *appliances* in the house are of sealed combustion, power-vent, unvented, or electric, the exhaust hood system shall be permitted to exhaust up to 600 cubic feet per minute (0.28 m³/s) without providing makeup air. Exhaust hood systems capable of exhausting in excess of 600 cubic feet per minute (0.28 m³/s) shall be provided with a makeup air at a rate approximately equal to the difference between the exhaust air rate and 600 feet per minute. Such makeup air systems shall be equipped with a means of closure.

(Add) **505.4.1 Location.** Kitchen exhaust makeup air shall be discharged into the same room in which the exhaust system is located or into rooms or *duct systems* that communicate through one or more permanent openings with the room in which such exhaust system is located. Such permanent openings shall have a net cross-sectional area not less than the required area of the makeup air supply openings.

(Add) **505.4.2 Makeup air dampers.** Where makeup air is required by Section 505.4, makeup air dampers shall comply with this section. Each damper shall be a gravity damper or an electrically operated damper that automatically opens when the exhaust system operates. Dampers shall be located to allow access for inspection, service, repair and replacement without removing permanent construction or any other ducts not connected to the damper being inspected, serviced, repaired or replaced. Gravity or barometric dampers shall not be used in passive makeup air systems except where the dampers are rated to provide the design makeup airflow at a pressure differential of 0.01 inch water column (3 Pa) or less.

(Amd) **506.3.2.5 Grease duct test.** Prior to the use or concealment of any portion of a grease *duct system*, a leakage test shall be performed. *Ducts* shall be considered to be concealed where installed in *shafts* or covered by coatings or wraps that prevent the ductwork from being visually inspected on all sides. The test shall be performed for the entire *duct system*, including the hood-to-*duct* connection. All connections, seams and welds shall be visible during the test. The ductwork shall be permitted to be tested in sections, provided that every joint is tested. For *listed* factory-built grease *ducts*, this test shall be limited to *duct* joints assembled in the field and shall exclude factory welds. The *permit holder* shall be responsible for providing the necessary equipment and perform the grease *duct* leakage test. The leakage test shall consist of one of the following tests, or an *approved* equivalent test:

(Del) **506.3.2.5.1 Light test.** Delete section and replace with the following:

(Add) **506.3.2.5.1 Positive pressure smoke test.** The positive pressure smoke test shall be performed by sealing the entire *duct system* from the hood exhaust opening(s) to the *duct* termination. Visible smoke shall be introduced to the *duct system*. The sealed *duct* shall then be pressurized to a minimum pressure of 1.0 inch water column, but shall not exceed the positive pressure capability of the system and components under test. No smoke shall be emitted from any exterior surface of the *duct* during the test.

(Add) **506.3.2.5.3 Air test.** The air test shall be performed by sealing the entire *duct* system from the hood exhaust opening(s) to the *duct* termination. The sealed *duct* system shall then be pressurized to a minimum pressure of 1.0 inch (249 Pa) water column and shall be required to hold the initial set pressure for a minimum of 20 minutes.

(Amd) **506.3.6 Grease duct clearances.** Where enclosures are not required, grease *duct* systems and exhaust equipment serving a Type I hood shall have a clearance to combustible construction of at least 18 inches (457 mm), 3 inches (76 mm) to *limited-combustible material*, and 0 inches (0 mm) to *noncombustible material*.

Exceptions:

1. Factory-built commercial kitchen grease *ducts* listed and labeled in accordance with UL 1978.
2. Grease *duct* systems or exhaust equipment listed for clearances less than those required in Section 506.3.6 shall be installed with the clearances specified by such listings.
3. Where commercial kitchen grease *ducts* are continuously covered on all sides with a listed and labeled field-applied grease *duct* enclosure material, system, product or method of construction specifically evaluated for such purpose in accordance with ASTM E2336, the required clearance shall be in accordance with the listing of such material, system, product or method.

(Add) **506.3.6.1 Clearance reduction.** The clearances required by Section 506.3.6 shall be permitted to be reduced in accordance with Section 308.

(Amd) **507.2.6 Clearances for Type I hood.** A Type I hood shall be installed with a clearance to combustibles of not less than 18 inches (457 mm), 3 inches (76 mm) to *limited-combustible material*, and 0 inches (0 mm) to *noncombustible material*.

Exceptions:

1. Clearance shall not be required from gypsum wallboard or 1/2-inch (12.7 mm) or thicker cementitious wallboard attached to noncombustible structures provided that a smooth, cleanable, nonabsorbent and *noncombustible material* is installed between the hood and the gypsum or cementitious wallboard over an area extending not less than 18 inches (457 mm) in all directions from the hood.
2. Type 1 hoods listed and labeled for clearances less than those required in Section 507.2.6 in accordance with UL 710 shall be installed with the clearances specified by such listings.

(Add) **507.2.6.1 Clearance reduction.** The clearances required by Section 506.3.6 shall be permitted to be reduced in accordance with Section 308.

CHAPTER 6 – DUCT SYSTEMS

(Amd) **606.2 Where required.** Smoke detectors shall be installed where indicated in Sections 606.2.1 through 606.2.3.

Exception: Smoke detectors shall not be required where air distribution systems are incapable of spreading smoke beyond the enclosing walls, floors and ceilings of the room or space in which the smoke is generated, or where the sole purpose of the air distribution system is to remove air from the inside of the *building* to the outside of the *building*.

CHAPTER 10 – BOILERS, WATER HEATERS AND PRESSURE VESSELS

(Add) **1001.1.1 Boilers and water heaters.** *Boilers* and *water heaters* shall also be governed by the regulations adopted under the authority of chapter 540 of the Connecticut General Statutes.

CHAPTER 11 – REFRIGERATION

(Amd) **1109.2.5 Refrigerant pipe shafts.** Refrigerant piping that penetrates two or more floor/ceiling assemblies shall be enclosed in a fire-resistance-rated shaft enclosure. The fire-resistance-rated shaft enclosure shall comply with Section 713 of the *International Building Code* portion of the Connecticut State Building Code.

Exceptions:

1. *Refrigeration* systems using R-718 refrigerant (water).
2. Piping in a direct *refrigeration* system refrigerant where the refrigerant quantity does not exceed the limits of Table 1103.1 for the smallest occupied space through which the piping passes.
3. Piping located on the exterior of the *building* where vented to the outdoors.

CHAPTER 13 – FUEL OIL PIPING AND STORAGE

(Amd) **1301.1 Scope.** This chapter and the Connecticut Fire Safety Code and Connecticut Fire Prevention Code shall govern the design, installation, construction and repair of fuel oil storage and piping systems. The storage of fuel oil and flammable and combustible liquids shall be in accordance with the Connecticut Fire Safety Code and Connecticut Fire Prevention Code.

CHAPTER 15 – REFERENCED STANDARDS

| | | |
|---|---|---|
| (Amd) NFPA | | National Fire Protection Association 1 Battery Park Quincy, MA 02169-7471 |
| Standard reference number—year of publication | Title | Referenced in code section number |
| (Add) 54-21 | National Fuel Gas Code |101.2.2 |
| (Amd) UL | | UL LLC 333 Pfingsten Road Northbrook, IL 60062 |
| Standard reference number—year of publication | Title | Referenced in code section number |
| (Add) 60335-2-40-2019 | Safety of Household and Similar Electric Appliances, Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers | 908.1. 916.1, 918.1, 918.2, 1101 |

(Del) **APPENDIX B – RECOMMENDED PERMIT FEE SCHEDULE.** Delete appendix.

(Del) **APPENDIX C – BOARD OF APPEALS.** Delete appendix.

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AMENDMENTS TO THE 2024 INTERNATIONAL ENERGY CONSERVATION CODE

IECC – COMMERCIAL PROVISIONS

CHAPTER 1 [CE] – SCOPE AND ADMINISTRATION

(Amd) **C101.1 Title.** The 2024 *International Energy Conservation Code* as amended in this section shall be known as the 2024 *International Energy Conservation Code* portion of the 2026 Connecticut State Building Code, hereinafter referred to as “the code” or “this code”.

(Amd) **C101.4 Compliance.** *Residential buildings* shall meet the provisions of IECC – Residential Provisions. *Commercial buildings* shall meet the provisions of IECC – Commercial Provisions.

Exception: Temporary structures are exempt from the requirements of this code.

(Add) **C101.4.2 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 comply with regulations adopted pursuant to section 16a-48 of the Connecticut General Statutes.

(Add) **C101.5 Administrative matters not provided for.** Administrative matters not covered by this code shall be in accordance with the provisions of Chapter 1 of the *International Building Code* portion of the Connecticut State Building Code.

(Amd) **C102.4 Referenced codes and standards.** 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 and as further regulated in Sections C102.4.1 and C102.4.2. Any reference to an ICC code adopted as part of the Connecticut State Building Code or the Connecticut State Fire Safety Code shall mean a reference to such ICC code as amended by the state of Connecticut.

(Del) SECTION C103 – CODE COMPLIANCE AGENCY.

Delete subsections in their entirety and replace with the following:

(Add) **C103.1 General.** Refer to Section 103 of the *International Building Code* portion of the Connecticut State Building Code – Enforcement Agency.

(Amd) **C104.1.1 Above code programs.** The State Building Inspector and the Codes and Standards Committee may deem a national, state or local energy efficiency program to exceed the energy efficiency required by this code. Such energy efficiency programs 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 pursuant to such an energy efficiency program shall be considered in compliance with this code. The requirements identified in Table C407.2(1) of this code, as applicable, shall be met.

(Amd) **C105.1 General.** Construction documents and other supporting data shall be submitted in one or more sets, or in a digital format where allowed by the building official, with each application for a permit.

The construction documents 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 or other supporting data if the *building official* determines they are not necessary to confirm compliance with this code.

(Amd) **C105.5 Retention of construction documents.** The *building official* shall retain one set of *approved construction documents* for a period as set forth in the records/disposition schedule adopted pursuant to chapter 188 of the Connecticut General Statutes.

(Del) SECTION C106 – FEES.

Delete subsections in their entirety and replace with the following:

(Add) **C106.1 General.** Refer to Section 109 of the *International Building Code* portion of the Connecticut State Building Code – Fees.

(Add) **C107.7 Posting of required inspections.** A schedule of required inspections shall be compiled by the code official. The schedule shall be posted in the building department of the municipality for public view.

(Add) **C107.8 Notification of inspection and testing results.** Notification of the passage or failure, in whole or in part, of any required inspection or test shall be made in writing by the *building official* or his duly authorized representative and shall be left at the job *site* or delivered to the *permit holder*. It shall be the duty of the *permit holder* to ascertain the results of required inspections.

(Del) SECTION C108 - NOTICE OF APPROVAL.

Delete subsections in their entirety and replace with the following:

(Add) **C108.1 General.** Refer to Section 111.6 of the *International Building Code* portion of the Connecticut State Building Code.

(Del) SECTION C109 – BOARD OF APPEALS.

Delete subsections in their entirety and replace with the following:

(Add) **C109.1 General.** Refer to Section 113 of the *International Building Code* portion of the Connecticut State Building Code – Means of Appeal.

(Del) SECTION C110 – STOP WORK ORDER.

Delete subsections in their entirety and replace with the following:

(Add) **C110.1 General.** Refer to Section 115 of the *International Building Code* portion of the Connecticut State Building Code – Stop Work Order.

CHAPTER 2 [CE] – DEFINITIONS

(Amd) **C201.3 Terms defined in other codes.** Where terms are not defined in this code and are defined in other codes adopted as portions of the Connecticut State Building Code, such terms shall have the meanings ascribed to them as in such other codes.

(Amd) SECTION C202 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. A *building official* may also be known as the *code official*.

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

CHAPTER 4 [CE] – COMMERCIAL ENERGY EFFICIENCY

(Amd) **C402.1.1.1 Low energy buildings.** *Buildings* that comply with any of the following:

1. Those with a peak design rate of energy usage less than 3.4 British thermal units per hour per square foot (Btu/h.ft²) or 1.0 watts per square foot (watt/ft²) of floor area for space conditioning purposes.
2. Those that do not contain *conditioned space*.
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.

(Amd) **C403.8.6.2 Intermittent exhaust control for bathrooms and toilet rooms.** Where an exhaust system serving a bathroom or toilet room is designed for intermittent operation, the exhaust system *shall* be provided with *manual* on capability and one or more of the following controls:

1. A timer control that has a minimum setpoint not greater than 30 minutes.
2. An *occupant sensor control* that automatically turns off exhaust fans within 30 minutes after all occupants have left the space.
3. A humidity control capable of *manual* or *automatic* adjustment from a minimum setpoint not greater than 50 percent to a maximum setpoint not greater than 80 percent relative humidity.
4. A contaminant control that responds to a particle or gaseous concentration.

Exception: Bathroom and toilet room exhaust systems in Group R-2, R-3 and R-4 occupancies shall not be required to provide controls other than *manual* on capability. An off setpoint shall not be used to comply with a minimum setpoint requirement.

(Amd) **C405.2.8 Demand responsive lighting controls.** Where provided, demand responsive controls for lighting shall comply with Section C405.2.8.1.

(Amd) **C405.12.1 Automatic receptacle control function.** *Automatic* receptacle controls, except for plug-in devices, shall comply with the following:

1. Either split controlled receptacles shall be provided with the top receptacle controlled, or a controlled receptacle shall be located within 12 inches (304.8 mm) of each uncontrolled receptacle.
2. One of the following methods shall be used to provide control:
 - 2.1 A scheduled basis using a time-of-day operated control device that turns receptacle power off at specific programmed times and can be programmed separately for each day of the week. The control device shall be configured to provide an independent schedule for each portion of the *building* of not more than 5,000 square feet (464.5 m²) and not more than one floor. The occupant shall be able to manually override an area for not more than 2 hours. Any individual override switch shall control the receptacles of not more than 5,000 feet (1524 m).
 - 2.2 An *occupant sensor control* that shall turn off receptacles within 20 minutes of all occupants leaving a space.

- 2.3 An automated signal from another control or alarm system that shall turn off receptacles within 20 minutes after determining that the area is unoccupied.
3. All controlled receptacles shall be permanently marked in accordance with NFPA 70, *National Electrical Code* and be uniformly distributed throughout the space.

Exceptions:

1. Within a single modular office workstation, noncontrolled receptacles are permitted to be located more than 12 inches (304.8 mm), but not more than 72 inches (1828 mm) from the controlled receptacles serving that workstation.
2. *Automatic* receptacle controls are not required for the following:
 - 2.1 Receptacles specifically designated for equipment requiring continuous operation (24 hours per day, 365 days per year), including but not limited to refrigerators and water dispensers in breakrooms, network copiers, fax machines, A/V and data equipment, other than personal computers in copy rooms.
 - 2.2 Spaces where an *automatic* control would endanger the safety or security of the room or building occupants.
 - 2.3 Buildings and structures, or portions thereof, classified as a Group I-2 hospital occupancy.
 - 2.4 Receptacles connected to an uninterruptible power supply (UPS) or office workstations that are intended to be in continuous use, 24 hours per day and 365 days per year.

IECC – RESIDENTIAL PROVISIONS

CHAPTER 1 [RE] – SCOPE AND ADMINISTRATION

(Amd) **R101.1 Title.** The 2024 *International Energy Conservation Code* as amended in this section shall be known as the 2024 *International Energy Conservation Code* portion of the 2026 Connecticut State Building Code, hereinafter referred to as “the code” or “this code”.

(Amd) **R101.4 Compliance.** *Residential buildings* shall meet the provisions of IECC – Residential Provisions. *Commercial buildings* shall meet the provisions of IECC – Commercial Provisions.

Exception: Temporary structures are exempt from the requirements of this code.

(Add) **R101.4.2 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 Connecticut shall comply with regulations adopted pursuant to section 16a-48 of the Connecticut General Statutes.

(Add) **R101.5 Administrative matters not provided for.** Administrative matters not covered by this code shall be in accordance with the provisions of Chapter 1 of the *International Building Code* portion of the Connecticut State Building Code.

(Amd) **R102.4 Referenced codes and standards.** 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 and as further regulated in Sections R102.4.1 and R102.4.2. Any reference to an ICC code adopted as part of the Connecticut State Building Code or the Connecticut State Fire Safety Code shall mean a reference to such ICC code as amended by the state of Connecticut.

(Del) SECTION R103 – CODE COMPLIANCE AGENCY.

Delete subsections in their entirety and replace with the following:

(Add) R103.1 General. Refer to Section 103 of the *International Building Code* portion or Section R103 of the 2024 *International Residential Code* portion, as applicable, of the Connecticut State Building Code – Enforcement Agency.

(Amd) R104.1.1 Above code programs. The State Building Inspector and the Codes and Standards Committee may 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 pursuant to such an energy efficiency program shall be considered in compliance with this code. The requirements identified in Table R405.2 of this code, as applicable, shall be met.

(Amd) R105.1 General. Construction documents and other supporting data shall be submitted in one or more sets, or in a digital format where allowed by the building official, with each application for a permit. The construction documents 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 or other supporting data if the *building official* determines they are not necessary to confirm compliance with this code.

(Amd) R105.5 Retention of construction documents. The *building official* shall retain one set of *approved construction documents* for a period as set forth in the records/disposition schedule adopted pursuant to chapter 188 of the Connecticut General Statutes.

(Del) SECTION R106 – FEES.

Delete subsections in their entirety and replace with the following:

(Add) R106.1 General. Refer to Section 109 of the *International Building Code* or Section R108 of the 2024 *International Residential Code* portion, as applicable, portion of the Connecticut State Building Code – Fees.

(Add) R107.7 Posting of required inspections. A schedule of required inspections shall be compiled by the code official. The schedule shall be posted in the building department of the municipality for public view.

(Add) R107.8 Notification of inspection and testing results. Notification of the passage or failure, in whole or in part, of any required inspection or test shall be made in writing by the *building official* or his duly authorized representative and shall be left at the job *site* or delivered to the *permit holder*. It shall be the duty of the *permit holder* to ascertain the results of required inspections.

(Del) SECTION R108 - NOTICE OF APPROVAL.

Delete subsections in their entirety and replace with the following:

(Add) R108.1 General. Refer to Section 111.6 of the *International Building Code* or Section R110 of the 2024 *International Residential Code* portion, as applicable, of the Connecticut State Building Code.

(Del) **SECTION R109 – MEANS OF APPEALS.**

Delete subsections in their entirety and replace with the following:

(Add) **R109.1 General.** Refer to Section 113 of the *International Building Code* or Section R112 of the 2024 *International Residential Code* portion, as applicable, portion of the Connecticut State Building Code – Means of Appeal.

(Del) **SECTION R110 – STOP WORK ORDER.**

Delete subsections in their entirety and replace with the following:

(Add) **R110.1 General.** Refer to Section 115 of the *International Building Code* or Section R114 of the 2024 *International Residential Code* portion, as applicable, portion of the Connecticut State Building Code – Stop Work Order.

CHAPTER 2 [RE] – DEFINITIONS

(Amd) **R201.3 Terms defined in other codes.** Where terms are not defined in this code and are defined in other codes adopted as portions of the Connecticut State Building Code, such terms shall have the meanings ascribed to them as in such other codes.

(Amd) **SECTION R202 GENERAL DEFINITIONS.** Add or amend the following definitions:

(Add) **ATTACHED DWELLING UNIT.** A *dwelling unit* separated by fire-resistance rated assemblies that are vertical, horizontal, or a combination thereof from another *dwelling unit* or occupied space.

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

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

CHAPTER 4 [RE] – RESIDENTIAL ENERGY EFFICIENCY

(Add) **R402.2.14 Foamed-in-place insulating material.** Pursuant to section 29-277 of the Connecticut General Statutes, foamed-in-place insulating material, except urethane foam insulation or styrene foam insulation, shall not be sold or installed in this state on or after May 28, 2013, unless the manufacturer or supplier has certified to the State Building Inspector that the material complies with the provisions of that section.

(Add) **R403.3.1.1 Duct insulation values.** Minimum *duct* insulation values stated in Sections R403.3.3 and R403.3.3.4 shall be installed R-values.

CHAPTER 5 [RE] – EXISTING BUILDINGS

(Amd) **R502.2.1 Building thermal envelope.** New *building envelope* assemblies that are part of the *addition* shall comply with Sections R402.1, R402.2, R402.4.1 through R402.4.5 and R402.5.

Exceptions:

1. New *building thermal envelope* assemblies are exempt from the requirements of Section R402.5.1.2.
2. A visual inspection of the *building envelope* tightness and insulation *shall* be considered acceptable when the items listed in Table R402.5.1.1, applicable to the method of construction, are field verified. Where required by the code official, an *approved* party independent from the installer of the insulation *shall* inspect the air barrier and insulation.

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AMENDMENTS TO THE 2023 NFPA 70, NATIONAL ELECTRICAL CODE

ARTICLE 90 – INTRODUCTION

(Amd) 90.2 Use and Application.

(C) Installations Covered. This code covers the installation of electrical conductors, equipment and raceways; signaling and communications conductors, equipment and raceways; and optical fiber cables and raceways for the following:

- (1) Public and private premises, including:
 - a. *buildings* and structures;
 - b. utility connections, additions and alterations to mobile homes;
 - c. utility connections to recreational vehicles; and
 - d. 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.
- (5) Installations supplying shore power to ships and watercraft in marinas and boatyards, including monitoring of leakage current.
- (6) Installations used to export electric power from vehicles to premises wiring or for bidirectional current flow.

(D) Installations 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 underground in mines and self-propelled mobile surface mining machinery and its attendant electrical trailing cable.
- (3) Installations of railways for generation, transformation, transmission, energy storage, 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, energy storage, or distribution of electric energy; or
- d. Are located by other written agreements either designated by or recognized by public service commissions, utility commissions, or other regulatory agencies having *jurisdiction* for such installations. These written agreements shall be limited to installations for the purpose of communications, metering, generation, control, transformation, transmission, energy storage, or distribution of electric energy where legally established easements or rights-of-way cannot be obtained. These installations shall be limited to federal lands, Native American reservations through the U.S. Department of the Interior Bureau of Indian Affairs, military bases, lands controlled by port authorities and state agencies and departments, and lands owned by railroads.

(F) Special permission. The State Building Inspector may grant an exception for the installation of conductors and equipment that are not under the exclusive control of the electric utilities and are used to connect the electric utility supply system to the service-entrance conductors of the premises served, provided such installations are outside a *building* or terminate immediately inside a *building* wall.

(Amd) 90.4 Enforcement.

(A) Application. Administration of this code shall be in accordance with the provisions of Chapter 1 of the *International Building Code* portion of the Connecticut State Building Code.

(B) Interpretations.

For the purposes of this code, the authority having *jurisdiction* for interpreting the rules and for granting the special permission contemplated in a number of rules is the State Building Inspector. Interpretations shall be requested verbally or in writing from the Office of the State Building Inspector. Special permission shall be requested in writing using the Request for Modification of the State Building Code form available from local building departments or from the Office of the State Building Inspector, with an electronic mail address at DAS.OSBI@ct.gov.

(C) Specific Requirements and Alternative Methods

By special permission, the State Building Inspector may waive specific requirements in this *Code* or permit alternative methods where it is assured that equivalent objectives can be achieved by establishing and maintaining effective safety. Special permission shall be requested in writing using the Request for Modification of the State Building Code form available from local building departments or from the Office of the State Building Inspector With an internet website address at portal.ct.gov/DAS.

(D) New Products, Constructions, or Materials.

Where this Code contains requirements for a new product, construction, or material that has an effective date after the adoption date of the Connecticut State Building Code, those requirements are not part of this Code.

CHAPTER 1 – GENERAL

ARTICLE 100 – Definitions.

(Amd) Authority having jurisdiction. The organization, office or individual responsible for approving equipment, material, an installation, or a procedure. The local *building official* has the responsibility for approving *construction documents*, issuing *permits*, approving materials and procedures and for making inspections from time to time as the construction process requires. The State Building Inspector has the responsibility for administering the Connecticut State Building Code, interpreting the Connecticut State

Building Code and for granting exceptions from specific rules of the Connecticut State Building Code. See the definition of “Special Permission,” and Article 90.4.

(Amd) **Special Permission.** For the purposes of this code, the authority having *jurisdiction* for granting the special permission contemplated in a number of rules is the State Building Inspector.

(Amd) 110.3(B) Installation and Use

Equipment that is listed, labeled, or both, or identified for a use shall be installed and used in accordance with any instructions included in the listing, labeling, or identification. Such instructions shall result in an installation and use that complies with the requirements within this code.

Informational Note: The installation and use instructions may be provided in the form of printed material, quick response (QR) code, or the address on the internet where users can download the required instructions.

CHAPTER 2 – WIRING AND PROTECTION

(Amd) **210.8 Ground-Fault Circuit-Interrupter Protection for Personnel.** Amend (A) and (F) as follows:

(Amd) **210.8(A)(12)** Indoor damp or wet locations

(Amd) **210.8(F) Outdoor Outlets.** For dwellings, all outdoor outlets for dwellings, other than those covered in 210.8 Exception 1, including outlets installed in the following locations, and supplied by single-phase branch circuits rated 150 volts or less to ground, 50 amperes or less, shall be provided with GFCI protection:

- (1) Garages that have floors located at or below grade level
- (2) Accessory buildings
- (3) Boathouses

If equipment supplied by an outlet covered under the requirements of this section is replaced, the outlet shall be supplied with GFCI protection.

Exception No. 1: GFCI protection shall not be required on lighting outlets other than those covered in 210.8(C).

Exception No. 2: GFCI protection shall not be required for mini-split-type heating/ventilating/air-conditioning (HVAC) equipment and other HVAC units employing power conversion equipment as a means to control compressor speed.

(Amd) **210.52 Dwelling Unit Receptacle Outlets.** Amend (C)(2) and (C)(3) as follows:

(Amd) **210.52(C)(2) Island and Peninsular Countertops and Work Surfaces.** Receptacle outlets, if installed to serve an island or peninsular countertop or work surface, shall be installed in accordance with 210.52(C)(3).

(Amd) **210.52(C)(3) Receptacle Outlet Location.** Receptacle outlets shall be permitted but not required to be located in one or more of the following:

- (1) On or above, but not more than 500 mm (20 in.) above, a countertop or work surface
- (2) In a countertop using receptacle outlet assemblies listed for use in countertops
- (3) In a work surface using receptacle outlet assemblies listed for use in work surfaces or listed for use in countertops

(4) Below countertop or work surfaces, flush or surface mounted on base cabinet: Not more than 12 inches below the countertop or work surface (measured from the top surface edge). Receptacles installed below a countertop or work surface shall not be located where the countertop or work surface extends more than 6 inches beyond the face of the receptacle.

Receptacle outlets rendered not readily accessible by appliances fastened in place, appliance garages, sinks, or rangetops as covered in 210.52(C)(1), Exception No. 1, or appliances occupying assigned spaces shall not be considered as these required outlets.

(Amd) **230.46 Spliced and Tapped Conductors.** Service-entrance conductors shall be permitted to be spliced or tapped in accordance with 110.14, 300.5(E), 300.13, and 300.15. Power distribution blocks, pressure connectors, and devices for splices and taps shall be listed.

(Amd) **230.85 Emergency Disconnects.** For new one- and two-family dwelling units, an emergency disconnecting means shall be installed.

(Del) **230.85(C) Replacement.** Delete this section.

(Amd) **250.50 Grounding Electrode System.** All grounding electrodes as described in 250.52(A)(1) through (A)(7) that are available at each building or structure served shall be bonded together to form the grounding electrode system. Where none of these grounding electrodes exist, one or more of the grounding electrodes specified in 250.52(A)(4) through (A)(8) shall be installed and used.

Exception: Concrete-encased electrodes of existing buildings or structures shall not be required to be part of the grounding electrode system if the rebar is not accessible for use without disturbing the concrete.

(Amd) **250.52 Grounding Electrodes.** Amend (A)(3) as follows:

(Amd) **250.52(A)(3) Concrete-Encased Electrode.** A concrete-encased electrode shall consist of at least 6.0 m (20 ft) of either of the following:

- (1) One or more bare or zinc galvanized or other electrically conductive coated rebar of not less than 13 mm (1/2 in.) in diameter, installed in one continuous 6.0 m (20 ft) length, or if in multiple pieces, the rebar shall be connected together by steel tie wires, exothermic welding, welding, or other effective means to create a 6.0 m (20 ft) or greater length.
- (2) Bare copper conductor not smaller than 4 AWG.

Metal components shall be encased by at least 50 mm (2 in.) of concrete and shall be located horizontally within that portion of a concrete footing that is in direct contact with the earth or within vertical foundations or structural components or members that are in direct contact with the earth. If multiple concrete-encased electrodes are present at a building or structure, it shall be permissible to bond only one into the grounding electrode system.

(Amd) **250.68 Grounding Electrode Conductor and Bonding Jumper Connection to Grounding Electrodes.** Amend (C) as follows:

(Amd) **250.68(C) Grounding Electrode Conductor Connections.** Grounding electrode conductors and bonding jumpers shall be permitted to be connected at the following locations and used to extend the connection to an electrode(s):

- (1) Interior metal water piping that is electrically continuous with a metal underground water pipe electrode and is located not more than 1.52 m (5 ft) from the point of entrance to the building, as measured along the water piping, shall be permitted to extend the connection to an electrode(s). Interior metal water piping located more than 1.52 m (5 ft) from the point of

entrance to the building, as measured along the water piping, shall not be used as a conductor to interconnect electrodes of the grounding electrode system.

Exception: In industrial, commercial, and institutional buildings or structures, if conditions of maintenance and supervision ensure that only qualified persons service the installation, interior metal water piping located more than 1.52 m (5 ft) from the point of entrance to the building, as measured along the water piping, shall be permitted as a bonding conductor to interconnect electrodes that are part of the grounding electrode system, or as a grounding electrode conductor, if the entire length, other than short sections passing perpendicularly through walls, floors, or ceilings, of the interior metal water pipe that is being used for the conductor is exposed.

- (2) The metal structural frame of a building shall be permitted to be used as a conductor to interconnect electrodes that are part of the grounding electrode system, or as a grounding electrode conductor. Hold-down bolts securing the structural steel column that are connected to a concrete-encased electrode complying with 250.52(A)(3) and located in the support footing shall be permitted to connect the metal structural frame of a building or structure to the concrete encased grounding electrode. The hold-down bolts shall be connected to the concrete-encased electrode by welding, exothermic welding, the usual steel tie wires, or other approved means.
- (3) A rebar-type concrete-encased electrode installed in accordance with 250.52(A)(3) with an additional rebar section extended from its location within the concrete footing to an accessible location that is not subject to corrosion shall be permitted for connection of grounding electrode conductors and bonding jumpers in accordance with the following:
 - a. The additional rebar section shall be continuous with the grounding electrode rebar or shall be connected to the grounding electrode rebar and connected together by the usual steel tie wires, exothermic welding, welding, or other effective means.
 - b. The rebar extension shall not be exposed to contact with the earth without corrosion protection.
 - c. Rebar shall not be used as a conductor to interconnect the electrodes of grounding electrode systems.

CHAPTER 3 – WIRING METHODS AND MATERIALS

(Amd) **300.4 Protection Against Physical Damage.** Amend 300.4 by adding subsection 300.4.1 as follows:

(Add) **300.4.1 Drilling and notching.**

(A) Structural floor, wall, ceiling and roof members.

(1) Solid sawn lumber. Notches in solid lumber joists, rafters and beams shall not exceed one-sixth of the depth of the member, shall not be longer than one-third of the depth of the member and shall not be located in the middle one-third of the span. Notches at the ends of the member shall not exceed one-fourth the depth of the member. The tension side of members 4 inches (102 mm) or greater in nominal thickness shall not be notched except at the ends of the members. The diameter of holes bored or cut into members shall not exceed one-third the depth of the member. Holes shall not be closer than 2 inches (51 mm) to the top or bottom of the member, or to any other hole located in the member. Where the member is also notched, the hole shall not be closer than 2 inches (51 mm) to the notch.

Exception: Notches on cantilevered portions of rafters are permitted provided the dimension of the remaining portion of the rafter is not less than 4-inch (102 mm) nominal and the length of the cantilever does not exceed 24 inches (610 mm).

(2) Engineered wood products. Cuts, notches and holes bored in trusses, structural composite lumber, structural glue-laminated members or I-joists are prohibited except where permitted by the manufacturer's recommendations or where the effects of such alterations are specifically considered in the design of the member by a *registered design professional*.

(3) Studs. Any stud in an *exterior wall* or interior bearing partition may be cut or notched to a depth not exceeding 25 percent of its width. Studs in nonbearing interior partitions may be notched to a depth not to exceed 40 percent of a single stud width. Any stud may be bored or drilled, provided that the diameter of the resulting hole is no greater than 40 percent of the stud width, the edge of the hole is no closer than 5/8 inch to the edge of the stud and the hole is not located in the same section as a cut or notch.

Exception No. 1: A stud may be bored or drilled to a diameter not exceeding 60 per cent of its width, provided that such studs located in exterior walls or interior bearing partitions are doubled and not more than two successive studs are bored.

Exception No. 2: Approved stud shoes may be used when installed in accordance with the manufacturer's recommendations.

(4) Top plates. When wiring, conduit, piping or ductwork is placed in or partly in an *exterior wall* or interior bearing wall, necessitating cutting, drilling or notching of the top plate by more than 50 per cent of its width, a galvanized metal tie of not less than 0.054 inch thick (1.37 mm) (16 ga) and 1 1/2 inches (38 mm) wide shall be fastened across and to the plate at each side of the opening with not less than eight 10d (0.148 inch diameter) nails at each side or equivalent. The metal tie must extend a minimum of 6 inches (152 mm) past the opening.

Exception: When the entire side of the wall with the notch or cut is covered by wood structural panel sheathing.

(Add) **300.4(I) Conductors and Wiring Methods Subject to Water, Fire, or Overheating.** Conductors and wiring methods subject to water, fire, or overheating shall be evaluated for damage.

Informational Note No. 1: See NEMA GD 1-2019, Evaluating Water-Damaged Electrical Equipment, for information on electrical equipment and wiring methods damaged by water.

Informational Note No. 2: See NEMA GD 2-2021, Evaluating Fire- and Heat-Damaged Electrical Equipment, for information on electrical equipment and wiring methods damaged by fire or heat.

(Amd) **314.27 Outlet Boxes.** Amend (C) as follows:

(Amd) **314.27(C) Boxes at Ceiling-Suspended (Paddle) Fan Outlets.** Outlet boxes or outlet box systems used as the sole support of a ceiling-suspended (paddle) fan shall be listed, shall be marked by their manufacturer on the interior of the box as suitable for this purpose, and shall not support ceiling-suspended (paddle) fans that weigh more than 32 kg (70 lb). For outlet boxes or outlet box systems designed to support ceiling-suspended (paddle) fans that weigh more than 16 kg (35 lb), the required marking shall include the maximum weight to be supported.

Outlet boxes mounted in the ceilings of family rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms and similar areas of dwelling occupancies and located in an area of the ceiling typical for the installation of a ceiling-suspended (paddle) fan shall be installed to accommodate a ceiling-suspended (paddle) fan and shall be:

- (1) Listed for the sole support of ceiling-suspended (paddle) fans
- (2) Installed so as to allow direct access through the box to structural framing capable of supporting a ceiling-suspended (paddle) fan without removing the box

CHAPTER 4 – EQUIPMENT FOR GENERAL USE

(Amd) **440.14 Location** – Add exception No. 3.

(Add) Exception No. 3: Where the interior section of a factory packaged split system is fed solely from the exterior section of the system and the disconnecting means for the exterior section is capable of being locked in the open position, a separate disconnecting means for the interior section shall not be required within sight from that section. The provisions for locking or adding a lock to the disconnecting means shall remain in place with or without the lock installed.

CHAPTER 5 – SPECIAL OCCUPANCIES

517.13 Equipment Grounding Conductor for Receptacles and Fixed Electrical Equipment in Patient Care Spaces. Amend (B) as follows:

(B) Insulated Equipment Grounding Conductors and Insulated Equipment Bonding Jumpers.

(1) General. The following shall be directly connected to an insulated copper equipment grounding conductor that is clearly identified along its entire length by green insulation and installed with the branch circuit conductors in the wiring methods as provided in 517.13(A):

- (1) The grounding terminals of all receptacles other than isolated ground receptacles
- (2) Metal outlet boxes, metal device boxes, or metal enclosures
- (3) All non-current-carrying conductive surfaces of fixed electrical equipment likely to become energized that are subject to personal contact, operating at over 100 volts
- (4) Metal faceplates, by means of a metal mounting screw(s) securing the faceplate to a metal yoke or strap of a receptacle or to a metal outlet box

Exception No. 1: For other than isolated ground receptacles, an insulated equipment bonding jumper that directly connects to the equipment grounding conductor is permitted to connect the box and receptacle(s) to the equipment grounding conductor. Isolated ground receptacles shall be connected in accordance with 517.16.

(Amd) **525.5 Overhead Conductor Clearances.** Add the following exception to (B)(2):

(Add) Exception: Tents erected and dismantled under the supervision of a licensed electrician or other person approved by the authority having jurisdiction may be placed within the 15 feet (4.5 m) space provided the finished height of the tent is a minimum of 10 feet (3.0 m) below the conductors.

CHAPTER 6 – SPECIAL EQUIPMENT

(Del) **680.4 Inspections After Installation.** Delete in its entirety without substitution.

CHAPTER 7 – SPECIAL CONDITIONS

(Amd) **700.3 Tests and Maintenance.** Amend (D) and delete (F) as follows:

(Amd) **(D) Record Keeping.** A written record shall be kept of such tests and maintenance and made available to those authorized to design, install, inspect, maintain, and operate the system.

(Del) (F) **Temporary Source of Power for Maintenance or Repair of the Alternate Source of Power.**
Delete in its entirety without substitution.

(Amd) **700.7 Signs.** Amend (A) as follows:

(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 the 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(I).

(Amd) **701.3 Commissioning and Maintenance.** Amend (B) and (D) as follows:

(Amd) (B) **Tested Periodically.** Systems shall be tested periodically to ensure the systems are maintained in proper operating condition.

(Amd) (D) **Record Keeping.** A written record shall be kept of such tests and maintenance and made available to those authorized to design, install, inspect, maintain, and operate the system.

(Amd) **701.7 Signs.** Amend (A) as follows:

(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 the 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 701.12(J).

(Amd) **702.7 Signs.** Amend (A) as follows:

(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 for all installations that indicates the type and location of on-site optional standby power sources. For one- and two-family dwelling units, a sign shall be placed at the disconnecting means required in 230.85 that indicates the location of each permanently installed on-site optional standby power source disconnect or means to shut down the prime mover as required in 445.19(C).

(Amd) **706.20 General.** Amend (B) by adding (B)(1) as follows:

(Add) **706.20(B)(1) Locations.** ESS shall not be installed in sleeping rooms, closets or spaces opening directly into sleeping rooms and shall only be installed in the following locations:

1. Detached garages and detached accessory structures.
2. Attached garages separated from the dwelling unit living space in accordance with Section R302.6 of the International Residential Code.
3. Outdoors or on the exterior side of exterior walls located not less than 3 feet (914 mm) from doors and windows directly entering the dwelling unit, except where smaller separation distances are permitted by the UL 9540 listing and manufacturer's installation instructions.
4. Enclosed utility closets, basements, storage or utility spaces within dwelling units with finished or noncombustible walls and ceilings. Walls and ceilings of unfinished wood-framed construction shall be provided with not less than $5/8$ -inch (15.9 mm) Type X gypsum wallboard. Openings into the dwelling shall be equipped with solid wood doors not less than $1\frac{3}{8}$ inches (35 mm) in thickness, solid or honeycomb-core steel doors not less than $1\frac{3}{8}$ inches (35 mm) in thickness, or doors with a 20-minute fire protection rating. Doors shall be self-latching and equipped with a self-closing or an automatic-closing device. Penetrations through

the required gypsum wallboard into the dwelling shall be protected as required by Section R302.11 of the International Residential Code, Item 4.

5. Other locations as permitted by the Connecticut State Building Code.

(Amd) **708.6 Testing and Maintenance.** Amend (A), (B) and (D) as follows:

(Amd) **(A) Conduct or Witness Test.** The authority having jurisdiction shall conduct or witness a test of the complete system upon installation.

(Amd) **(B) Tested Periodically.** Systems shall be tested periodically to ensure the systems are maintained in proper operating condition.

(Amd) **(D) Record Keeping.** A written record shall be kept of such tests and maintenance and made available to those authorized to design, install, inspect, maintain, and operate the system.

(Amd) **725.60 Power Sources for Class 2 and Class 3 Circuits.** Amend (C) as follows:

(Amd) **(C) Marking.** The equipment supplying the circuits shall be durably marked where plainly visible to indicate each circuit that is a Class 2 or Class 3 circuit. The power sources for limited power circuits in 725.121(A)(3), limited power circuits for listed audio/video equipment, listed information technology equipment, listed communications equipment, and listed industrial equipment in 725.121(A)(4) shall have a label indicating the maximum voltage and rated current output per conductor for each connection point on the power source. Where multiple connection points have the same rating, a single label shall be permitted to be used. The labeling requirement shall apply to equipment with a rated current per conductor 0.3 amperes or greater.

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AMENDMENTS TO THE 2024 INTERNATIONAL SWIMMING POOL AND SPA CODE

CHAPTER 1 – SCOPE AND ADMINISTRATION

(Amd) **101.1 Title.** The 2024 *International Swimming Pool and Spa Code* shall be known as the 2024 *International Swimming Pool and Spa Code* portion of the 2026 Connecticut State Building Code, hereinafter referred to as “the code” or “this code”.

(Amd) **102.5 Historic buildings.** Pursuant to section 29-259 of the Connecticut General Statutes, exemptions may be granted from the provisions of this code for historic structures, as described in section 10-410 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) **102.9.1 Health Department regulations.** Pursuant to section 19a-36 of the Connecticut General Statutes, no person shall construct, substantially alter or reconstruct a *public 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-, or two- 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.

(Del) **SECTION 103 CODE COMPLIANCE AGENCY.**

Delete subsections in their entirety and replace with the following:

(Add) **103.1 General.** Refer to Section 103 of the *International Building Code* portion or Section R103 of the *International Residential Code* portion, as applicable, of the Connecticut State Building Code – Enforcement Agency.

(Del) **SECTION 104 DUTIES AND POWERS OF CODE OFFICIAL.**

Delete subsections in their entirety and replace with the following:

(Add) **104.1 General.** Refer to Section 104 of the *International Building Code* portion or Section R104 of the *International Residential Code* portion, as applicable, of the Connecticut State Building Code – Duties and Powers of the Building Official.

(Del) **SECTION 105 PERMITS.**

Delete subsections in their entirety and replace with the following:

(Add) **105.1 General.** Refer to Section 105 of the *International Building Code* portion or Section R105 of the *International Residential Code* portion, as applicable, of the Connecticut State Building Code – Permits.

(Del) **SECTION 106 TEMPORARY STRUCTURES, EQUIPMENT AND SYSTEMS**

Delete subsections in their entirety and replace with the following:

(Add) **106.1 General.** Refer to Section 108 of the *International Building Code* portion or Section R107 of the *International Residential Code* portion, as applicable, of the Connecticut State Building Code – Construction Documents.

(Del) SECTION 107 CONSTRUCTION DOCUMENTS.

Delete subsections in their entirety and replace with the following:

(Add) **107.1 General.** Refer to Section 107 of the *International Building Code* portion or Section R106 of the *International Residential Code* portion, as applicable, of the Connecticut State Building Code – Construction Documents.

(Del) SECTION 108 NOTICE OF APPROVAL.

Delete subsections in their entirety and replace with the following:

(Add) **108.1 General.** Refer to Section 111.6 of the *International Building Code* portion or Section R110.6 of the *International Residential Code* portion, as applicable, of the Connecticut State Building Code.

(Del) SECTION 109 FEES.

Delete subsections in their entirety and replace with the following:

(Add) **109.1 General.** Refer to Section 109 of the *International Building Code* portion or Section R107 of the *International Residential Code* portion, as applicable, of the Connecticut State Building Code – Fees.

(Del) SECTION 110 SERVICE UTILITIES.

Delete subsections in their entirety and replace with the following:

(Add) **110.1 General.** Refer to Section 111 of the *International Building Code* portion or Section R110 of the *International Residential Code* portion, as applicable, of the Connecticut State Building Code – Certificate of Occupancy.

(Del) SECTION 111 INSPECTIONS.

Delete subsections in their entirety and replace with the following:

(Add) **111.1 General.** Refer to Section 110 of the *International Building Code* portion or Section R109 of the *International Residential Code* portion, as applicable, of the Connecticut State Building Code – Inspections.

(Del) SECTION 112 – MEANS OF APPEALS.

Delete subsections in their entirety and replace with the following:

(Add) **112.1 General.** Refer to Section 113 of the *International Building Code* portion or Section R112 of the *International Residential Code* portion, as applicable, of the Connecticut State Building Code – Means of Appeal.

(Del) SECTION 113 - VIOLATIONS.

Delete subsections in their entirety and replace with the following:

(Add) **113.1 General.** Refer to Section 114 of the *International Building Code* portion or Section R113 of the *International Residential Code* portion, as applicable, of the Connecticut State Building Code – Violations.

(Del) SECTION 114 – STOP WORK ORDERS.

Delete subsections in their entirety and replace with the following:

(Add) **114.1 General.** Refer to Section 115 of the *International Building Code* portion or Section R114 of the 2024 *International Residential Code* portion, as applicable, of the Connecticut State Building Code – Violations.

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 State Building Code, such terms shall have the meanings ascribed to them in such other codes.

(Amd) **SECTION 202 DEFINITIONS.**

Amend or 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. A *building official* may also be known as the *code official*.

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

(Amd) **DESIGN PROFESSIONAL.** An individual who is registered or licensed by the Department of Consumer Protection pursuant to chapters 390, 391, 396 or 396a of the Connecticut General Statutes to practice the individual's respective design profession and acting within the scope of his or her license or registration and practice discipline.

(Amd) **PUBLIC SWIMMING POOL (Public Pool).** An artificial basin constructed of concrete, steel, fiberglass or other impervious material and equipped with a controlled water supply that is intended for recreational bathing, swimming, diving or therapeutic purposes and includes, but is not limited to, any related equipment, structure, area or enclosure intended for the use of any person using or staffing such pool. "Public pool" does not include an artificial basin provided with a controlled water supply that is intended for use as a *residential pool*, except when such basin is used for commercial or business purposes at such residence. The following are subclasses of public pools:

- (A) Public swimming pool, which is a pool used or intended to be used for recreational bathing, swimming or water recreation activities.
- (B) Public wading pool, which is a pool principally used or intended to be used for wading and recreational bathing by small children.
- (C) Public spa, which is a pool used for recreational bathing in conjunction with a high-velocity air system, a high-velocity water recirculation system, hot water, cold water, a mineral bath or any combination thereof.
- (D) Public diving pool, which is a pool used solely for diving or the instruction and practicing of diving techniques.
- (E) Special purpose public pool, which is a pool used for a specialized purpose, including, but not limited to, a splash pad or spray park where the water is recirculated, water flume, pool used for scuba diving instruction, therapeutic pool, hydrotherapy pool or a pool used in an aquatics program for persons with disabilities. "Special purpose public pool" does not include a flotation vessel, which shall not be subject to review by the Department of Public Health. For purposes of this subparagraph, "flotation vessel" means a tank devoid of light and sound and containing salt water in which a person floats for purposes, including, but not limited to, meditation, relaxation and alternative medicine.

(Amd) **RESIDENTIAL SWIMMING POOL (Residential Pool).** A pool intended for use that is accessory to a one- or two-family residential setting and available only to the household and its guests that is capable of containing water more than 24 inches (610 mm) deep. Other pools shall be considered to be public pools for purposes of this code.

Type O. A nondiving residential pool.

Types I–V. Residential pools suitable for the installation of diving equipment by type.

(Amd) **SPA.** A product intended for the immersion of persons in temperature-controlled water circulated in a closed system and not intended to be drained and filled with each use. A spa usually includes a filter, an electric, solar or gas heater, a pump or pumps, and a control, and can include other equipment, such as lights, blowers, and water-sanitizing equipment.

Nonself-contained spa. A factory-built *spa* in which the water heating and circulating equipment is not an integral part of the product. Nonself-contained spas may employ separate components such as an individual filter, pump, heater and controls, or they can employ assembled combinations of various components.

Permanent residential spa. A spa, intended for use that is accessory to a *residential* setting and available to the household and its guests and where the water heating and water-circulating equipment is not an integral part of the product. The spa is intended as a permanent plumbing fixture and not intended to be moved.

Portable residential spa. A spa intended for use that is accessory to a *residential* setting and available to the household and its guests and where it is either self-contained or nonself-contained.

Public spa. See “*public pool*”.

Self-contained spa. A factory-built spa in which all control, water heating and water-circulating equipment is an integral part of the product. Self-contained spas may be permanently wired or cord connected.

CHAPTER 3 – GENERAL COMPLIANCE

(Amd) **302.1 Electrical.** Electrical requirements for aquatic facilities shall be in accordance with the NFPA 70, *National Electrical Code* portion of the Connecticut State Building Code.

Exception: Internal wiring for portable *residential* spas and portable *residential* exercise spas.

(Amd) **304.2 Determination of impacts based on location.** Pools and spas that are located in flood hazard areas established by the *International Building Code* or the *International Residential Code* including above-ground pools, on-ground pools and in-ground pools that involve placement of fill, shall comply with Section 304.2.1 or 304.2.2.

Exception: Pools located in riverine flood hazard areas which are outside of designated floodways.

(Amd) **305.1 General.** The provisions of this section shall apply to the design of barriers for restricting entry into areas having pools and spas. Where spas or hot tubs are equipped with a lockable *safety cover* complying with ASTM F1346, the areas where those spas, hot tubs are located shall not be required to comply with Sections 305.2 through 305.7.

(Amd) **305.1.1 Construction fencing required.** A temporary enclosure shall be installed for in ground *swimming pools* and *spas* from the time that construction occurs up to the time that the permanent barrier is completed. The temporary enclosure shall be a minimum of 4 feet (1219 mm) in height, shall have no openings that will allow passage of a 4-inch (102 mm) sphere and shall be equipped with a positive latching device on any openings.

(Amd) **305.2.10 Clear zone.** The required barrier height shall exist around the entire perimeter of the barrier and for a distance of 3 feet (914 mm) measured horizontally from the outside of the required barrier, free of structures, equipment or similar objects.

(Amd) **305.5 Onground residential pool structure as a barrier.** An onground *residential* pool wall structure or a barrier mounted on top of an onground *residential* pool wall structure shall serve as a barrier where all of the following conditions are present:

1. Where only the pool wall serves as the barrier, the bottom of the wall is on grade, the top of the wall is not less than 48 inches (1219 mm) above grade for the entire perimeter of the pool, the wall complies with the requirements of Section 305.2.
2. Where a barrier is mounted on top of the pool wall, the top of the barrier is not less than 48 inches (1219 mm) above grade for the entire perimeter of the pool, and the wall and the barrier on top of the wall comply with the requirements of Section 305.2.
3. Ladders or steps used as means of access to the pool are capable of being secured, locked or removed to prevent access except where the ladder or steps are surrounded by a barrier that meets the requirements of Section 305.
4. Openings created by the securing, locking or removal of ladders and steps do not allow the passage of a 4-inch (102 mm) diameter sphere.
5. Barriers that are mounted on top of onground *residential* pool walls are installed in accordance with the pool manufacturer's instructions.

(Amd) **305.6 Natural barriers.** In the case where the pool or spa area abuts the edge of a lake or other natural body of water, public access is not permitted or allowed along the shoreline, and required barriers extend to and beyond the water's edge not less than 18 inches (457 mm), a barrier is not required between the natural body of water shoreline and the pool or spa when approved by the State Building Inspector.

(Amd) **305.7 Natural topography.** Natural topography that prevents direct access to the pool or spa area shall include, but not be limited to, mountains and natural rock formations. A natural barrier *approved* by the State Building Inspector shall be acceptable provided that the degree of protection is not less than the protection afforded by the requirements of Sections 305.2 through 305.5.

(Amd) **306.2 Slip resistant.** Decks, ramps, coping, and similar step surfaces shall be slip resistant and cleanable. Where surfaces are evaluated for slip resistance, such surfaces shall have, when tested wet, a minimum pendulum slip rating classification of P4 if tested in accordance with SA AS4586 or a minimum Dynamic Coefficient of Friction (DCOF) of 0.42 if tested in accordance with *ANSI A326*. Special features in or on decks such as markers, brand insignias, and similar materials shall be slip resistant.

(Amd) **306.3 Step risers and treads.** Step risers and treads for decks of residential pools and spas shall be in accordance with the *International Residential Code* portion of the Connecticut State Building Code.

(Del) **306.4 Deck steps handrail required.** Delete section in its entirety

(Del) **306.5 Slope.** Delete section in its entirety

(Del) **TABLE 306.5 MINIMUM DRAINAGE SLOPES FOR DECK SURFACES**

(Del) **306.5.1 Deck drainage.** Delete section in its entirety

(Del) **306.5.2 Site drainage.** Delete section in its entirety

(Amd) **306.6 Gaps.** Gaps not less than 1/8 inch and not greater than 1/2 inch shall be provided between wood deck boards for drainage. Gaps between manufactured deck boards shall be in accordance with the manufacturer's installation instructions.

(Del) **306.7.2 Crack control.** Delete section in its entirety

(Del) **306.7.3 Movement control.** Delete section in its entirety

(Del) **306.9.1 Hose bibbs.** Delete section in its entirety

(Del) **307.1.2 Colors and finishes.** Delete section and subsections in their entirety.

(Del) **307.2.4 Surface conditions.** Delete section in its entirety.

(Del) **SECTION 309 DIMENSIONAL DESIGN.** Delete section in its entirety.

(Amd) **312.3 Water velocity.** The water velocity in suction and return piping for *residential* pools and spas shall not exceed 8 fps (2.4 mps). All water velocity calculations shall be based on the design flow rate specified for each recirculation system.

(Del) **312.6 Pressure or vacuum gauge.** Delete section in its entirety.

(Del) **312.7 Flow measurement.** Delete section in its entirety.

(Del) **314.7 Emergency shutoff switch.** Delete section in its entirety.

(Amd) **TABLE 317.2(1) WATER HEATERS**

| DEVICE | STANDARD |
|------------------------|--|
| Electric water heater | UL 1261, UL 1563 or CSA C22.2 No. 218.1 |
| Gas-fired water heater | ANSI Z21.56/CSA 4.7a |
| Heat exchanger | AHRI 400 |
| Heat pump water heater | AHRI 1160 and one of the following: CSA C22.2 No. 236, UL 1995, or UL/CSA 60335-2-40 |
| Oil-fired pool heaters | UL 726 |

(Del) **SECTION 319 WATER SUPPLY.** Delete section in its entirety.

(Del) **SECTION 320 SANITIZING EQUIPMENT AND CHEMICAL FEEDERS.** Delete section in its entirety.

(Del) **322.2 Artificial lighting required.** Delete section and subsections in their entirety.

(Del) **322.3 Emergency illumination.** Delete section in its entirety.

(Add) **324.4 Pool alarm.** Pursuant to section 29-265a of the Connecticut General Statutes, no building permit shall be issued for the construction or substantial alteration of a *residential 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 that emits a sound of at least 50

decibels when a person or an object weighing 15 pounds (6.8 kg) or more enters the water in a swimming pool.

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

(Del) **SECTION 325 EQUIPMENT ROOMS.** Delete section in its entirety.

(Del) **SECTION 326 INDOOR AIR QUALITY.** Delete section in its entirety.

(Del) **CHAPTER 4 – PUBLIC SWIMMING POOLS.**

Delete chapter in its entirety.

(Del) **CHAPTER 5 – PUBLIC SPAS AND PUBLIC EXERCISE SPAS.**

Delete chapter in its entirety.

(Del) **CHAPTER 6 – AQUATIC RECREATIONAL FACILITIES.**

Delete chapter in its entirety.

(Amd) **CHAPTER 8 – PERMANENT RESIDENTIAL SWIMMING POOLS**

(Amd) **801.1 Scope.** Design, construction, installation, *alteration*, repair and operation of permanent *residential swimming pools*, which include pools that are inground, partially aboveground, or entirely above ground shall comply with this chapter.

(Amd) **801.2 General.** In addition to the requirements of this chapter, permanent pools shall comply with the requirements of Chapter 3.

CHAPTER 9 – PERMANENT RESIDENTIAL SPAS AND PERMANENT RESIDENTIAL EXERCISE SPAS

(Amd) **902.1 Instructions and safety signage.** Instructions and safety signage shall comply with the manufacturer's recommendations.

(Del) **APPENDIX A – BOARD OF APPEALS.** Delete appendix in its entirety.

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AMENDMENTS TO THE 2024 INTERNATIONAL RESIDENTIAL CODE

CHAPTER 1 – SCOPE AND ADMINISTRATION

(Amd) **R101.1 Title.** The 2024 *International Residential Code* as amended in this section *shall* be known as the 2024 *International Residential Code* portion of the 2026 Connecticut State Building Code, hereinafter referred to as “the code” or “this code.”

(Amd) **R101.2 Scope.** The provisions of this code *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 *townhouses* not more than three stories above grade plane in height with a separate *means of egress* and their *accessory structures* not more than three stories above grade plane in height.

Exceptions:

1. Live/work units in one- and two-family *dwellings*, 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 permitted to comply with the requirements of this code.
2. A care facility for three or fewer persons receiving custodial care within a *dwelling unit* shall be permitted to be constructed in accordance with this code.
3. A family child care home, as described in subsection (a)(3) of section 19a-77 of the Connecticut General Statutes, that operates in a *dwelling unit* within a one-family or two-family residence in accordance with the licensing and regulatory requirements of the Office of Early Childhood, shall be permitted to be constructed in accordance with this code.
4. A group child care home, as described in subsection (a)(2) of section 19a-77 of the Connecticut General Statutes, that operates in a *dwelling unit* within a one-family or two-family residence in accordance with the licensing and regulatory requirements of the Office of Early Childhood, shall be permitted to be constructed in accordance with this code.
5. The following shall be permitted to be constructed in accordance with this code where provided with a residential fire sprinkler system complying with Section P2904:
 - 5.1. Live/work units located in townhouses and complying with the requirements of Section 508.5 of the *International Building Code* portion of the Connecticut State Building Code.
 - 5.2. Owner-occupied lodging houses with five or fewer guestrooms.
 - 5.3. A care facility with three or fewer persons receiving medical care within a *dwelling unit*.

(Amd) **R101.2.1 Appendices.** The following appendices of the *International Residential Code* portion of the Connecticut State Building code are hereby specifically adopted and included in this code: BA; BB; BE; BF; BG; BH; BP; CD; CF.

- Appendix BA – Manufactured housing used as dwellings
- Appendix BB – Tiny houses
- Appendix BE – Passive radon gas controls
- Appendix BF – Patio covers
- Appendix BG – Sound transmission
- Appendix BH – Automatic vehicular gates
- Appendix BP – Wind speeds and ground snow loads
- Appendix CD – Piping standards for various applications
- Appendix CF – Sizing of water piping systems

(Add) **R101.4 Referenced codes and regulations.** The other codes specified in Sections R101.4.1 through R101.4.7 and referenced elsewhere in this code shall be considered to be part of the requirements of this code to the prescribed extent of each such reference.

(Add) **R101.4.1 Gas.** The *International Fuel Gas Code* is not adopted by the state of Connecticut. Any references to the *International Fuel Gas Code* within the body of this code *shall* be considered references to the requirements of NFPA 2, *Hydrogen Technologies Code*; NFPA 54, *National Fuel Gas Code*; and NFPA 58, *Liquefied Petroleum Gas Code*. These requirements apply to liquid petroleum storage systems, gas piping systems extending from the point of delivery to the inlet connections of appliances, the installation and operation of residential gas appliances, and related accessories as covered by this code.

(Add) **R101.4.2 Private sewage disposal.** The *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 pursuant to section 19a-36 of the Connecticut General Statutes. Any reference to the *International Private Sewage Disposal Code* within the body of this code *shall* be deemed a reference to the regulations adopted pursuant to section 19a-36 of the Connecticut General Statutes, known as the Public Health Code.

(Add) **R101.4.3 Property maintenance.** The *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. References to the *International Property Maintenance Code* found within the body of the model document *shall* be considered null and void.

(Add) **R101.4.4 Connecticut State Fire Safety Code.** References to the *International Fire Code* within the body of the model document *shall* be considered to be references to the Connecticut State Fire Safety Code.

(Add) **R101.4.5 Applicable electrical code.** The applicable electrical code for *buildings* constructed under this code is the NFPA 70, *National Electrical Code* portion of the Connecticut State Building Code.

(Add) **R101.4.6 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.

(Add) **R101.4.7 Existing building code.** The *permit* applicant may elect at the time of application for *permit* to follow the requirements of the *International Existing Building Code* portion of the Connecticut State Building Code, as an alternative compliance to the requirements of this code. The applicant must indicate this choice on the permit application and on all *construction documents*.

(Amd) **R102.4 Referenced codes and standards.** The codes and standards referenced in this code *shall* be considered part of the requirements of this code to the prescribed extent of each such reference and as further regulated in Sections R102.4.1 and R102.4.2. Any reference to the ICC codes *shall* mean the Connecticut State Building Code adopted pursuant to section 29-252 of the Connecticut General Statutes.

Exception: Where enforcement of a code provision would violate the conditions of the listing of the *equipment* or appliance, the conditions of the listing and manufacturer's instructions *shall* apply.

(Amd) **R102.6 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 – CODE COMPLIANCE AGENCY.** Delete Section R103 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.** Pursuant to section 29-260 of the Connecticut General Statutes, 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*” and referred to in this code 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 chief executive officer, 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* therefor, unless that person is the *owner* of the *building*. Such official or employee *shall* not engage in any work that conflicts with official duties or with the interests of the agency.

(Add) **R104.1.1 Rule-making authority.** Pursuant to 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 Administrative Services, adopt and administer the Connecticut 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) **R104.2 Determination of compliance.** The *building official* *shall* have the authority to determine compliance with this code and to adopt policies and procedures in order to clarify the application of its provisions. Such policies and procedures:

1. Shall be in compliance with the intent and purpose of this code.
2. Shall not have the effect of waiving requirements specifically provided for in this code.
3. Shall not have the effect of establishing requirements in excess of those set forth in this code.

(Amd) **R104.2.2.5 Tests.** Tests conducted to demonstrate equivalency in support of an alternative material, design or method of construction application shall be of a scale that is sufficient to predict performance of the end use configuration. Such tests shall be performed by an *approved agency* acceptable to the *building official*.

(Del) **R104.2.2.6.2 Other reports.** Delete section.

(Amd) **R104.2.3 Modifications.** Modifications, variations, or exemptions from, or approval of equivalent or alternate compliance with the requirements of this code *shall* be in accordance with the provisions of Sections R104.2.3.1 through R104.2.3.4.

(Del) **R104.2.3.1 Flood hazard areas.** Delete and substitute the following:

(Add) **R104.2.3.1 Connecticut State Building Code.** Pursuant to subsection (b) of section 29-254 of the Connecticut General Statutes, the State Building Inspector may grant modifications, variations or exemptions from, or approve equivalent or alternate compliance with, the Connecticut State Building Code where strict compliance with the Connecticut State Building Code would entail practical difficulty or unnecessary hardship, or is otherwise adjudged unwarranted, provided 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 not later than 30 days after mailing of the decision.

(Add) **R104.2.3.1.1 Action on application.** The application for modification, variation, or exemption from, or approval of equivalent or alternate compliance with the requirements of the Connecticut State Building Code *shall* be made on a form supplied by the State Building Inspector, which *shall* be submitted by the applicant to the *building official*. Pursuant to subsection (b) of section 29-254 of the Connecticut General Statutes, any such application received by a *building official* *shall* be forwarded to the State Building Inspector within 15 business days of receipt by such *building official*. The application *shall* include the *building official's* comments on the merits of the application and *shall* be signed by the *building official*.

(Add) **R104.2.3.1.2 Records.** The application for modification, variation, or exemption or approval of equivalent or alternate compliance 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) **R104.2.3.2 Accessibility exemption.** Pursuant to subsection (b) of section 29-269 of the Connecticut General Statutes, any variation of or exemption from any provisions relating to accessibility to, use of and egress from, *buildings* and *structures* as required in this code *shall* be permitted only when approved by the State Building Inspector. Any person aggrieved by the decision of the State Building Inspector may appeal to the Codes and Standards Committee within 30 days after such decision has been rendered.

(Add) **R104.2.3.3 Historic structures exemption.** Pursuant to section 29-259 of the Connecticut General Statutes, exemptions may be granted from the provisions of this code for historic *structures* as described in section 10-410 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. Exemptions *shall* be granted in accordance with Section R104.2.3 of this code.

(Add) **R104.2.3.4 Urban homesteading property exemption.** Pursuant to section 29-259 of the Connecticut General Statutes, exemptions may be granted from 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 R104.2.3 of this code.

(Add) **R104.3.1.1 Wind design criteria for existing structures.** For *structures* where the proposed work is determined to be a substantial improvement or restoration under Section R105.3.1.1 and having a wind Exposure D, structural elements that are uncovered *shall* be required to be improved to meet the wind speed design criteria in Section R301.2.1.

(Amd) **R104.4 Right of entry.** Pursuant to 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 9 a.m. and 5 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. Pursuant to section 29-393 of the Connecticut General Statutes, 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.

(Amd) **R105.1 Required.** Any *owner* or *owner's* 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 performed, *shall* first make application to the *building official* and obtain the required *permit*.

(Add) **R105.1.1 By whom application is made.** Pursuant to section 29-263 of the Connecticut General Statutes, an application for a *permit* *shall* be made by the *owner* or by an *owner's* authorized agent. If the *owner's* authorized agent is a contractor, such contractor *shall* follow the provisions of section 20-338b of the Connecticut General Statutes. The applicant *shall* include the full names and addresses of the *owner*, *owner's* authorized agent and the responsible officers, if the *owner* or agent is a corporate body.

(Add) **R105.1.2 Permit issuance to a home improvement contractor.** No *permit* *shall* be issued to a contractor who is required to be registered pursuant to chapter 400 of the Connecticut General Statutes, for work to be performed by such contractor, unless the name, business address and Department of Consumer Protection registration number of such contractor is clearly marked on the application for *permit*, and the contractor has presented such contractor's certificate of registration as a home improvement contractor.

(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 *jurisdiction*. *Permits* *shall* not be required for the following work:

Building:

1. Other than *storm shelters*, one-story detached *accessory structures* used as tool and storage sheds, playhouses and similar uses, provided the floor area is not greater than 200 square feet (18.58 m²).
2. Fences, other than swimming pool barriers, not over 7 feet (2134 mm) high.
3. Retaining walls that are not higher than 3 feet (914 mm) measured from finished grade at the bottom of the wall to finished grade at the top of the wall, unless supporting a surcharge.
4. Water tanks supported directly upon grade if the capacity does not exceed 5000 gallons (18927 L) and the ratio of height to *diameter* or width does not exceed 2 to 1.
5. Sidewalks, driveways, and on-grade *concrete* or *masonry* patios not more than 30 inches (762 mm) above adjacent grade and not over any *basement* or *story* below.
6. Painting, papering, tiling, carpeting, cabinets, countertops and similar finish work not involving structural changes or *alterations*.
7. Prefabricated *swimming pools* that are equal to or less than 24 inches (610 mm) deep.
8. Swings, nonhabitable tree houses and other playground equipment.
9. Window awnings supported by an *exterior wall* which do not project more than 54 inches (1372 mm) from the *exterior wall* and which do not require additional support.
10. Decks and ramps not exceeding 200 square feet (18.58 m²) in area, that are not more than 30 inches (762 mm) above grade at any point, are not attached to a *dwelling* or *townhouse*, do not require *guards*, and do not serve the *exit* door required by Section R318.4.
11. *Repairs* that are limited to 25 percent of roof covering and *building* siding within one calendar year.
12. Hoop homes or high tunnels used only for agricultural use.

Electrical:

1. *Listed* cord-and-plug connected temporary decorative lighting.
2. Reinstallation of attachment plug receptacles but not the outlets therefor.
3. Replacement of branch circuit overcurrent devices of the required capacity in the same location.
4. Electrical wiring, devices, appliances, apparatus or *equipment* operating at less than 25 volts and not capable of supplying more than 50 watts of energy.
5. Minor *repair* work, including the 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 (4.54 kg) or less of refrigerant or that are actuated by motors of 1 horsepower (746 W) 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 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.** Pursuant to section 29-263 of the Connecticut General Statutes, 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 applicable laws, statutes, regulations and ordinances, the *building official* *shall* reject such application in writing, stating the reasons therefor. If the *building official* is satisfied that the proposed work conforms to the requirements of this code and applicable laws, the *building official* *shall* issue a *permit* as soon as practicable.

(Add) **R105.3.1.1 Zoning approval.** Pursuant to subsection (f) of section 8-3 of the Connecticut General Statutes, no building *permit* *shall* be issued, in whole or in part, 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) **R105.3.1.2 Historic certificate of appropriateness.** Pursuant to subsection (b) of section 7-147s of the Connecticut General Statutes, no *building permit* for erection of a *building or structure* or for *alteration* of an exterior architectural feature within the boundaries of an historic property and no *demolition permit* for demolition or removal of a *building or structure* within the boundaries of an historic property *shall* be issued by a municipality or any department, agency or official thereof until a certificate of appropriateness has been issued.

(Add) **R105.3.1.3 Notice to Public Water Authority.** Pursuant to section 19a-37d of the Connecticut General Statutes, when a *permit* application is filed with the *building official* of any municipality concerning any project that includes a change of use or installation of fixtures or facilities in a *building* that may affect the performance of, or require the installation of, a reduced pressure principle backflow preventer, a double check valve assembly or a pressure vacuum breaker, the *building official shall* provide written notice of the application to the water company serving the *building* not later than 7 days after the date the application is filed. Upon receipt of such written notice, the water company *shall* cause to be performed an evaluation of cross-connection protection by a person who has met the requirements prescribed in the Regulations of Connecticut State Agencies and such water company *shall* notify the *building official* regarding its determination. The *building official shall* not issue a *permit* or certificate of occupancy until any cross-connection issue has been corrected.

(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 after commencement of work if more than 180 days pass between inspections. 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 extension *shall* be requested in writing and justifiable cause *shall* be demonstrated.

Exception: The *building official* may 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) **R105.5.1 Nine-year closure.** Pursuant to subsection (c) of section 29-265 of the Connecticut General Statutes, nine years from the date of issuance of a *building permit* issued pursuant to section 29-263 for construction or *alteration* of a one-family *dwelling, two-family dwelling or structure* located on the same parcel as a *one-family dwelling* or *two-family dwelling*, for which construction or *alteration* a certificate of occupancy, as defined in the regulations adopted pursuant to section 29-252 of the Connecticut general Statutes, has not been issued by the *building official*, such *building permit* *shall* be deemed closed.

(Amd) **R106.1.1 Information on construction documents.** *Construction documents* *shall* be drawn upon suitable material. Electronic media documents are permitted to be submitted where *approved* by the *building official*. *Construction documents* *shall* be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in detail that the work will conform to the provisions of this code and relevant laws, ordinances, rules and regulations, as determined by the *building official*. When the quality or arrangement of materials is essential for conformity to this code, specific information *shall* be given to establish such quality or arrangement, and this code *shall* not be cited, nor shall terms such as "legal," "per code" or their equivalent be used as a substitute for specific information.

(Add) **R106.2.1 Private sewage disposal system.** The *site plan* *shall* indicate the location of a private or public sewage disposal system. Private sewage disposal systems *shall* be designed and installed in accordance with the requirements of the Public Health Code adopted pursuant to 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.** Pursuant to 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*.

(Add) **R106.6 Additional requirements.** Nontransient residential *dwellings* having more than 16 units or 24,000 square feet (2230 m^2) total gross area per *building* *shall* be subject to the additional requirements set forth in Section 107.6 of the *International Building Code* portion of the Connecticut State Building Code.

(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* open on all sides which comply with all of the following:
 - 2.1. Individual *tents* having a maximum size of 700 square feet (65 m^2).
 - 2.2. Multiple *tents* placed side by side without a fire break clearance of 12 feet (3658 mm), with an aggregate area not exceeding 700 square feet (65 m^2) total.
 - 2.3. A minimum clearance of 12 feet (3658 mm) to all other *structures* and *tents*.
3. *Tents* 900 square feet (84 m^2) 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 utilities before an installation has been fully completed and the final 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 NFPA 70, *National Electrical Code*, portion of the Connecticut 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 in the building department of the municipality.

(Amd) **R108.3 Building permit valuations.** The applicant for a *permit* *shall* provide an estimated *permit* value at the time of application. *Permit* valuations *shall* include total value of work, including materials and labor, for which the *permit* is being issued, such as electrical, gas, mechanical, plumbing equipment and permanent systems. If, in the opinion of the *building official*, the valuation is underestimated on the application, the *permit* *shall* be denied, unless the applicant can show detailed estimates to meet the approval of the *building official*. Final building *permit* valuation *shall* be set by the *building official*.

(Del) **R108.6 Work commencing before permit issuance.** Delete without substitution.

(Add) **R109.1.4.1 Insulation inspection.** Inspection of the *building* air tightness and insulation installation *shall* be conducted in accordance with Section N1102.4.1.

(Add) **R109.1.5.2 Additional electrical inspections.** Required electrical inspections *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) **R109.1.7 Posting of required inspections.** The *building official* *shall* compile a schedule of required inspections and *shall* post the schedule in the building department for public view.

(Add) **R109.1.8 Remote inspections.** The *building official* shall be permitted to conduct inspections and witness testing remotely which *shall* be in accordance with the policies and procedures indicated in Section R104.2.

(Add) **R109.5 Notification of inspection results.** Notification as to passage or failure, in whole or in part, of any required inspection *shall* be made in writing by the *building official* or his duly authorized representative and *shall* be left at the job *site* or delivered to the *permit holder*. Any violations cited must contain the State Building Code year under which the permit was issued, the model code referenced, and the applicable section. It *shall* be the duty of the *permit holder* to ascertain the results of required inspections.

(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 complies with the provisions of this 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. A certificate of occupancy is not required for work exempt from permit requirements under Section R105.2
3. Pursuant to section 29-252a of the Connecticut General Statutes, state agencies, the Connecticut Airport Authority and the Connecticut Port Authority shall not be required to obtain a certificate of occupancy from a local *building official*. State agencies and the applicable authority shall obtain a certificate of occupancy for all buildings or alterations of existing buildings for which a building permit is required as described in section 29-252a of the Connecticut General Statutes from the State Building Inspector.

(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) **R110.1.2 Statement of professional opinion.** Pursuant to section 29-276c of the Connecticut General Statutes, no certificate of occupancy *shall* be issued for a proposed *structure* or *addition* to *buildings* classified as nontransient residential *dwellings* having more than 16 units or 24,000 square feet (2230 m²) total gross area per *building*, until the *building official* has been provided with a statement signed by the architect or professional engineer and the general contractor stating that the completed *structure* or *addition* is in substantial compliance with the *approved* plans and specifications on file.

(Amd) **R110.3 Temporary occupancy.** The *building official* may issue a temporary certificate of occupancy before the completion of the entire work covered by the *permit*, provided such portion or portions *shall* be occupied safely prior to full completion of the *building or structure* without endangering life or public welfare. Any occupancy permitted to continue during completion of the work *shall* be discontinued within 30 days after completion of the work unless the *building official* issues a certificate of occupancy. No temporary certificate of occupancy *shall* be issued for work subject to the zoning regulations of a municipality without certification in writing by the official charged with the enforcement of such regulations that the work is in conformity with such regulations or is a valid nonconforming use under such regulations.

(Add) **R110.5 Partial occupancy.** The *building official* may issue a partial certificate of occupancy for a portion of the *building or structure* when, in the *building official's* 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. No partial certificate of occupancy *shall* be issued for work subject to the zoning regulations of a municipality without certification in writing by the official charged with the enforcement of such regulations that the work is in conformity with such regulations or is a valid nonconforming use under such regulations.

(Add) **R110.6 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*. The *building official* *shall* inspect 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 to determine compliance with this code. A final inspection *shall* be provided in accordance with Section R109.1.6.

(Add) **R110.7 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 BA.

(Add) **R110.8 Concrete documentation.** Pursuant to section 29-265c of the Connecticut General Statutes, prior to the issuance of a certificate of occupancy for a new residential or commercial *building* for which a concrete foundation was installed on or after October 1, 2016, the applicant *shall* provide the *building official* with written documentation of the name of the individual or entity that supplied the concrete and the name of the individual or entity that installed the concrete. Copies of such documentation *shall* be maintained in the records of the office of the *building official* for not less than fifty years.

(Add) **R110.9 Certificate of approval.** The *building official* *shall* issue a certificate of approval 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: fences greater than 7 feet (2134 mm) in height; retaining walls greater than 3 feet (914 mm) in height; decks; garages; *swimming pools*; *basements* and *attics* converted to *habitable space*; electrical, plumbing and mechanical *repairs* or *alterations*. No certificate of approval *shall* be issued for work subject to the zoning regulations of a municipality without certification in writing by the official charged with the enforcement of such regulations that the work is in conformity with such regulations or is a valid nonconforming use under such regulations.

(Del) **SECTION R112 - MEANS 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 (b) of section 29-266 of the Connecticut General Statutes, when a *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 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 or by electronic mail 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 or by electronic mail from the decision of the *building official* to the municipal board of appeals as provided by subsection (b) of section 29-266 of the Connecticut General Statutes.

(Add) **R112.1.1 Absence of municipal board of appeals.** In the absence of a municipal board of appeals, the provisions of subsection (c) of section 29-266 of the Connecticut General Statutes *shall* be followed.

(Add) **R112.1.2 State Building Inspector review.** Pursuant to 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 when he has reason to believe that such official or board has misconstrued or misinterpreted any provision of the Connecticut State Building Code.

(Add) **R112.2 Appointment of municipal board of appeals.** Pursuant to subsection (a) of section 29-266 of the Connecticut General Statutes, a municipal board of appeals consisting of five members *shall* be appointed by each municipality.

(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 of experience each in either *building design*, *building construction* or supervision of *building construction*.

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

(Add) **R112.3 Notice of meeting.** Each appeal *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 subsection (b) 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 in accordance with the provisions of subsection (d) of section 29-266 of the Connecticut General Statutes.

(Add) **R113.2.1 Written notice.** The *building official* or his duly authorized representative *shall* provide any notice of violation in writing to the *owner* of the property involved or to the *owner's* agent or to the person doing the work.

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

(Amd) **R114.4 Failure to comply.** 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 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 116 of the *International Building Code* portion of the Connecticut 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 117 of the *International Building Code* portion of the Connecticut State Building Code.

(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 118 of the *International Building Code* portion of the Connecticut State Building Code.

CHAPTER 2 – DEFINITIONS

(Amd) **R201.3 Terms defined in other codes.** Where terms are not defined in this code and are defined in other portions of the Connecticut State Building Code, such terms *shall* have the meanings ascribed to them as in those portions.

(Amd) **SECTION R202 DEFINITIONS.** Add or amend the following definitions:

(Add) **ATTACHED DWELLING UNIT.** A *dwelling unit* sharing demising walls, floors, ceiling or common corridors with another *dwelling unit* or occupied space.

(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) **DWELLING UNIT ENCLOSURE AREA.** The sum of the area of ceiling, floors and walls separating a *dwelling unit's* conditioned space from the exterior or from adjacent conditioned or unconditioned space. Wall height *shall* be measured from the finished floor of the *dwelling unit* to the underside of the floor above.

(Amd) **EXISTING BUILDING.** 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) **ONE-FAMILY DWELLING.** A *building* containing one *dwelling unit* with not more than six lodgers or boarders. Also known as a single-family *dwelling*.

(Amd) **REGISTERED DESIGN PROFESSIONAL.** An individual who is registered or licensed by the Department of Consumer Protection pursuant to chapters 390, 391, 396 or 396a of the Connecticut General Statutes to practice the individual's respective design profession and acting within the scope of his or her license or registration and practice discipline.

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

CHAPTER 3 – BUILDING PLANNING

(Amd) **R301.1.3 Engineered design.** Where a building of otherwise conventional construction contains structural elements exceeding the limits of Section R301 or otherwise not conforming to this code, these elements shall be designed in accordance with accepted engineering practice. The extent of such design need only demonstrate compliance of nonconventional elements with other applicable provisions and shall be compatible with the performance of the conventional framed system. Engineered design in accordance with the *International Building Code* portion of the Connecticut State Building Code is permitted for *buildings* and *structures*, and parts thereof, included in the scope of this code. Engineered design shall be certified by a registered design professional.

(Amd) **R301.2.1 Wind design criteria.** *Buildings* and portions thereof *shall* be constructed in accordance with the wind provisions of this code using the ultimate design wind speed V_{ult} , in mph, using Risk Category II in the ASCE Wind Design Geodatabase which is available at <https://ascehazardtool.org> or as tabulated in Appendix BP. 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 not otherwise specified, the wind *loads* listed in Table R301.2.1(1) adjusted for height and exposure using Table R301.2.1(2) *shall* be used to determine design load performance requirements for wall coverings, curtain walls, roof coverings, exterior windows, skylights, garage doors and exterior doors. Asphalt shingles *shall* be designed for wind speeds in accordance with Section R905.2.4. A continuous *load path* *shall* be provided to transmit the applicable uplift forces in Section R802.11.1 from the roof assembly to the foundation.

(Amd) **R301.2.1.1 Alternative wind design provisions.** As an alternative to the requirements in Section R301.2.1, the design of *buildings* for wind *loads* may be in accordance with one or more of the following methods:

1. AWC *Wood Frame Construction Manual* (WFCM).
2. ICC *Standard for Residential Construction in High Wind Regions* (ICC 600).
3. ASCE *Minimum Design Loads and Associated Criteria for Buildings and Other Structures* (ASCE 7).
4. AISI *Standard for Cold-Formed Steel Framing - Prescriptive Method For One- and Two-Family Dwellings* (AISI S230).
5. *International Building Code*.

(Amd) **TABLE R301.2 CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA**

| GROUND SNOW LOAD | WIND DESIGN | | SEISMIC DESIGN CATEGORY | SUBJECT TO DAMAGE FROM | | |
|------------------------------|------------------------------|------------------------|-------------------------|-------------------------|------------------|----------------|
| | Speed ^b (mph) | Wind-Borne Debris Zone | | Weathering ^a | Frost Line Depth | Termite |
| As set forth in Appendix BP. | As set forth in Appendix BP. | See definition | B | Severe | 42" | Moderate-Heavy |

| WINTER DESIGN TEMP | ICE BARRIER UNDERLAYMENT REQUIRED | FLOOD HAZARDS | AIR FREEZING INDEX | MEAN ANNUAL TEMPERATURE | CLIMATE ZONE |
|--------------------|-----------------------------------|--------------------------|--------------------|-------------------------|--------------|
| 7°F | YES | To be determined locally | 1,500 or less | 50°F | 5A |

| Manual J Design Criteria ACCA Manual J 8th edition 2016 | | | | | | | | | |
|--|--|-----------|----------|----------------|-------------|------------|---------------|---------|-----------------|
| Location | | Elevation | Latitude | Heating 99% | Cooling | | | | |
| | | | | | Outdoor Air | | Design Grains | | |
| | | Feet | Degrees | North | 1% | Coincident | 55% RH | 50% RH | 45% RH |
| | | | | Outdoor | Dry Bulb | Wet Bulb | Indoors | Indoors | Indoors (DR) |
| | | | | Dry Bulb | | | | | |
| Connecticut | | | | | | | | | |
| Bridgeport, Sikorsky Memorial AP | | 10 | 41 | 12 | 84 | 72 | 29 | 36 | 42 |
| Hartford, Brainard Field | | 19 | 41 | 6 | 88 | 72 | 23 | 30 | 36 |
| New Haven AP | | 14 | 41 | 7 | 84 | 73 | 35 | 42 | 48 |
| New London | | 10 | 41 | 9 | 85 | 72 | 26 | 32 | 39 |
| Norwalk | | 397 | 41 | 9 | 84 | 71 | 22 | 29 | 36 |
| Norwich | | 197 | 41 | 7 | 86 | 73 | 30 | 37 | 44 |
| Waterbury | | 850 | 41 | 2 | 85 | 71 | 22 | 28 | 35 |
| Windsor Locks, Bradley Field | | 197 | 42 | 8 | 88 | 71 | 16 | 22 | 29 |

For SI: 1 pound per square foot = 0.0479 kPa, 1 mile per hour = 0.447 m/s.

- a. Weathering may require a higher strength *concrete* or grade of *masonry* than necessary to satisfy the structural requirements of this code.
- b. Wind exposure category *shall* be determined on a site-specific basis in accordance with Section R301.2.1.4.

(Del) **FIGURE R301.2(1) WEATHERING PROBABILITY MAP FOR CONCRETE^{a,b}.** Delete without substitution.

(Del) **FIGURE R301.2(2) ULTIMATE DESIGN WIND SPEEDS.** Delete without substitution.

(Del) **FIGURE R301.2(3) ALLOWABLE STRESS DESIGN GROUND SNOW LOADS, P_g FOR THE UNITED STATES (lb/ft²).** Delete without substitution.

(Amd) **TABLE R301.2.1(1) COMPONENT AND CLADDING LOADS FOR A BUILDING WITH A MEAN ROOF HEIGHT OF 30 FEET LOCATED IN EXPOSURE B (ASD).** Add footnote:
h. For Ultimate Design Wind Speeds (V_{ult}) between those given, the loads shall be interpolated.

(Del) **FIGURE R301.2.1.1 REGIONS WHERE WIND DESIGN IS REQUIRED.** Delete without substitution.

(Del) **R301.2.1.3 Wind speed conversion.** Delete without substitution.

(Del) **TABLE 301.2.1.3 WIND SPEED CONVERSIONS.** Delete without substitution.

(Amd) **R301.2.1.4 Exposure category.** For each wind direction considered, an exposure category that adequately reflects the characteristics of ground surface irregularities *shall* be determined for the *site* at which the *building* or *structure* is to be constructed. For a *site* located in the transition zone between categories, the category resulting in the largest wind forces *shall* apply. Account *shall* be taken of variations in ground surface roughness that arise from natural topography and vegetation as well as from constructed features. For a *site* where multiple detached *one- and two-family dwellings, townhouses* or other *structures* are to be constructed as part of a subdivision or master-planned community, or are otherwise designated as a developed area by the authority having *jurisdiction*, the exposure category for an individual *structure* *shall* be based upon the *site* conditions that will exist at the time when all adjacent *structures* on the *site* have been constructed, provided that their construction is expected to begin within 1 year of the start of construction for the *structure* for which the exposure category is determined.

(Add) **R301.2.1.4.1 Wind directions and sectors.** For each selected wind direction at which the wind *loads* are to be evaluated, the exposure of the *building* or *structure* *shall* be determined for the two upwind sectors extending 45 degrees (0.79 rad) on either side of the selected wind direction. The exposures in these two sectors *shall* be determined in accordance with Sections R301.2.1.4.2 and R301.2.1.4.3, and the exposure resulting in the highest wind *loads* *shall* be used to represent winds from that direction.

(Add) **R301.2.1.4.2 Surface roughness categories.** A ground surface roughness within each 45-degree (0.79 rad) sector *shall* be determined for a distance upwind of the *site*, as defined in Section R301.2.1.4.3 from the categories defined in this section, for the purpose of assigning an exposure category, as defined in Section R301.2.1.4.3.

Surface Roughness B. Urban and suburban areas, wooded areas or other terrain with numerous closely spaced obstructions having the size of single-family *dwellings* or larger.

Surface Roughness C. Open terrain with scattered obstructions having heights generally less than 30 feet (9144 mm). This category includes flat open country and grasslands.

Surface Roughness D. Flat, unobstructed areas and water surfaces. This category includes smooth mud flats, salt flats and unbroken ice.

(Add) **R301.2.1.4.3 Exposure categories.** An exposure category *shall* be determined in accordance with the following:

Exposure B. For *buildings* with a mean roof height of less than or equal to 30 feet (9144 mm), Exposure B *shall* apply where the ground surface roughness, as defined by Surface Roughness B, prevails in the upwind direction for a distance of at least 1500 feet (457 m). For *buildings* with a mean roof height greater than 30 feet (9144 mm), Exposure B *shall* apply where Surface Roughness B prevails in the upwind direction for a distance of at least 2600 feet (792 m) or 20 times the height of the *building*, whichever is greater.

Exposure C. Exposure C *shall* apply for all cases where Exposure B or D does not apply.

Exposure D. Exposure D *shall* apply where the ground surface roughness, as defined by Surface Roughness D, prevails in the upwind direction for a distance of at least 5000 feet (1524 m) or 20 times the height of the *building*, whichever is greater. Exposure D *shall* also apply where the ground surface roughness immediately upwind of the *site* is B or C, and the *site* is within a distance of 600 feet (183 m) or 20 times the *building height*, whichever is greater, from an Exposure D condition, as defined in the previous sentence.

(Del) **R301.2.1.5 Topographic wind effects.** Delete without substitution.

(Del) **R301.2.1.5.1 Simplified topographic wind speed-up method.** Delete without substitution.

(Del) **TABLE R301.2.1.5.1 ULTIMATE DESIGN WIND SPEED MODIFICATION FOR TOPOGRAPHIC WIND EFFECT.** Delete without substitution.

(Del) **FIGURE R301.2.1.5.1(1) TOPOGRAPHIC FEATURES FOR WIND SPEED-UP EFFECT.** Delete without substitution.

(Del) **FIGURE R301.2.1.5.1(2) ILLUSTRATION OF WHERE ON A TOPOGRAPHIC FEATURE, WIND SPEED INCREASE IS APPLIED.** Delete without substitution.

(Del) **FIGURE R301.2.1.5.1(3) UPWIND OBSTRUCTION.** Delete without substitution.

(Del) **R301.2.2 Seismic provisions.** Delete section and all of its subsections without substitution.

(Add) **R301.2.4.2 Structures being elevated to comply with flood regulations.** *Structures* being elevated in height to be at or above the design flood elevation with minimal *alterations* to the existing *structure* shall be anchored to the new foundation or the raised existing foundation with connections capable of resisting the wind loads and other loads prescribed by this chapter. New foundations or raised existing foundations shall be designed and constructed in accordance with Section R306 and Chapter 4. Where the *alterations* to the *structure* include exposing the structural framing in any portion of the *structure*, connectors shall be installed as required to transfer wind loads and other loads prescribed by this chapter through the exposed portion of the *structure*.

An existing *structure* shall be reinforced to comply with the structural wind loading requirements for new *structures* when any of the following occur:

1. When the roof is changed to a steeper pitch making the roof taller relative to the eave.
2. When an additional story is added to any portion of the *structure*.
3. When the ratio of wall openings to exterior wall length in any story on any side of the building increases by more than 5 percent.

(Amd) **R301.6 Roof load.** Roofs *shall* be designed for the Allowable Stress Design ground snow *load* indicated using Risk Category II in the ASCE Snow Geodatabase which is available at <https://ascehazardtool.org>, or as tabulated in Appendix BP.

(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 utility *structures* and low-risk *structures*. For the purposes of this section, “utility *structures*” means *accessory structures*.

(Add) **R302.2.7 Sound transmission.** Wall and floor-ceiling assemblies separating adjacent *townhouse* units *shall* comply with Appendix BG.

(Amd) **R302.3.5 Vertically stacked dwelling units.** Where one *dwelling unit* in a two-family *dwelling* is located above the other and an automatic sprinkler system complying with Section P2904 is not provided in both *dwelling units*, both of the following shall apply:

1. Horizontal and vertical assemblies separating the *dwelling units*, including an interior *stairway* serving as the *means of egress* for the upper *dwelling unit*, shall have a fire-resistance rating of 1 hour based on testing in accordance with ASTM E119 or UL 263, or an analytical method in accordance with Section 703.2.2 of the *International Building Code* portion of the Connecticut State Building Code.
2. A notification appliance connected to smoke alarms in the other *dwelling unit* shall be provided in each *dwelling unit*.

(Amd) **R302.3.6 Shared common areas.** Shared common areas shall be separated from each individual *dwelling unit* by fire-resistance rated assemblies that are vertical, horizontal, or a combination thereof having not less than a 1-hour *fire-resistance rating* based on testing in accordance with ASTM E119, UL 263 or an analytical method in accordance with Section 703.2.2 of the *International Building Code* portion of the Connecticut State Building Code. Openings and penetrations between the shared common area and *dwelling unit* shall comply with Sections R302.3.6.1, R302.6.2 and R302.3.6.3. Attachment of *gypsum board* shall comply with Table R702.3.5.

(Amd) **R302.3.6.1 Opening protection.** Openings from a shared common area directly into a room used for sleeping purposes shall not be permitted. Other openings between the shared common area and *dwelling units* shall be equipped with solid wood doors not less than $1\frac{3}{8}$ inches (35 mm) in thickness, solid or honeycomb core steel doors not less than $1\frac{3}{8}$ inches (35 mm) in thickness, or a fire door assembly with a 20-minute fire-protection rating, equipped with a self-closing or automatic-closing device.

(Amd) **R302.3.6.2 Duct penetration.** Ducts penetrating the walls or ceilings separating the *dwelling* from the shared common area shall be constructed of sheet steel not less than No. 26 gage (0.48 mm) or other approved material and shall not have openings into the shared common area.

(Add) **R302.3.7 Sound transmission.** Wall and floor-ceiling assemblies separating *dwelling units* *shall* comply with Appendix BG – Sound Transmission.

(Amd) **R302.5.3 Other penetrations.** Penetrations into or through the separation required in Section R302.6 *shall* be protected as required by Section R302.11, Item 4.

(Amd) **R302.6 Dwelling unit garage fire separation.** The garage shall be separated as required by Table R302.6, except that wood structural members of the minimum dimension specified in the *International Building Code* portion of the Connecticut State Building Code for Type IV-HT construction shall be acceptable without further protection. Openings in garage walls *shall* comply with Section R302.5. Attachment of *gypsum board* *shall* comply with Table R702.3.5. The wall separation provisions of Table R302.6 *shall not apply* to garage walls that are perpendicular to the adjacent *dwelling unit* wall.

(Amd) TABLE R302.6 DWELLING UNIT GARAGE SEPARATION

| SEPARATION | MATERIAL |
|--|--|
| From the <i>dwelling unit</i> and attics | Not less than $\frac{5}{8}$ inch Type X <i>gypsum board</i> or equivalent applied to the garage side ^a |
| From all habitable rooms above the garage | Not less than $\frac{5}{8}$ inch Type X <i>gypsum board</i> or equivalent |
| <i>Structure(s)</i> supporting floor/ceiling assemblies used for separation required by this section | Not less than $\frac{5}{8}$ inch Type X <i>gypsum board</i> or equivalent ^a |
| Garages located less than 3 feet from a <i>dwelling unit</i> on the same <i>lot</i> | Not less than $\frac{5}{8}$ inch Type X <i>gypsum board</i> or equivalent applied to the interior side of <i>exterior walls</i> that are within this area ^a |

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

^a If *building* is sprinklered in accordance with Section R309, then not less than $\frac{1}{2}$ -inch *gypsum board* or equivalent is required.

(Del) FIGURE R305.4 TERMITE INFESTATION PROBABILITY MAP. Delete without substitution.

(Amd) **R306.2.1 Elevation requirements.**

- Buildings and structures in flood hazard areas (AE and A Zones), not including flood hazard areas designated as coastal high-hazard areas (VE Zone) or Coastal A Zones, shall have the lowest floors elevated to or above the base flood elevation plus 1 foot (305 mm), or the design flood elevation, whichever is higher.
- In areas of shallow flooding (AO Zones), *buildings and structures* shall have the lowest floor (including *basement*) elevated to a height above the highest adjacent *grade* of not less than the depth number specified in feet (mm) on the FIRM plus 1 foot (305 mm), or not less than 3 feet (915 mm) if a depth number is not specified.
- Basement* floors that are below *grade* on all sides shall be elevated to or above base flood elevation plus 1 foot (305 mm), or the design flood elevation, whichever is higher.
- Attached garages and carports shall comply with one of the following:
 - The floors shall be elevated to or above the elevations required in Item 1 or Item 2, as applicable.
 - The floors shall be at or above *grade* on not less than one side. Where an attached garage or carport is enclosed by walls, the walls shall have flood openings that comply with Section R306.2.2 and the attached garage or carport shall be used only for parking, building access or storage.
- Detached *accessory structures* and detached garages shall comply with one of the following:
 - The floors shall be elevated to or above the elevations required in Item 1 or Item 2, as applicable.
 - Floors below the elevations required in Item 1 or 2, as applicable, must be:
 - Used only for parking or storage.
 - One *story*.
 - Anchored to resist flotation, collapse or lateral movement resulting from design flood loads.
 - Equipped with flood openings that comply with Section R306.2.2.
 - Constructed of flood-damage-resistant materials that comply with Section R306.1.8. Have mechanical, plumbing and electrical systems, if applicable, that comply with Section R306.1.6.

Exception: Enclosed areas below the elevation required in this section, including enclosures with floors that are not below *grade* on all sides, shall meet the requirements of Section R306.2.2.

(Amd) **R306.2.2 Enclosed area below required elevation.** Enclosed areas, including *crawl spaces*, that are below the elevation required in Section R306.2.1 shall:

1. Be used solely for parking of vehicles, building access or storage.
2. Be provided with flood openings that meet the following criteria and are installed in accordance with Section R306.2.2.1:
 - 2.1. The total net area of nonengineered openings shall be not less than 1 square inch (645 mm^2) for each square foot (0.093 m^2) of enclosed area where the enclosed area is measured on the exterior of the enclosure walls, or the openings shall be designed as engineered openings and the *construction documents* shall include a statement by a *registered design professional* that the design of the openings will provide for equalization of hydrostatic flood forces on exterior walls by allowing for the automatic entry and *exit* of floodwaters as specified in Section 2.7.2.2 of ASCE 24.
 - 2.2. Openings shall be not less than 3 inches (76 mm) in any direction in the plane of the wall.
 - 2.3. The presence of louvers, blades, screens and faceplates or other covers and devices shall allow the automatic flow of floodwater into and out of the enclosed areas and shall be accounted for in the determination of the net open area.

Exceptions: The following shall not be required to comply with this section:

1. Elevator shafts that conform to the FEMA Technical Bulletin 4: Elevator Installation.
2. Utility chases that protect utility lines from freezing, provided that the utility chases are the minimum size necessary to protect the utility lines and do not provide access for a *person* to enter the space.

(Amd) **R306.3.2 Elevation requirements.**

1. *Buildings and structures* erected within coastal high-hazard areas (VE Zone) and Coastal A Zones, shall be elevated so that the bottom of the lowest horizontal structural members supporting the lowest floor, with the exception of piling, pile caps, columns, grade beams and bracing, is elevated to or above the base flood elevation plus 1 foot (305 mm) or the design flood elevation, whichever is higher.
2. *Basement* floors that are below *grade* on all sides are prohibited.
3. Attached garages used only for parking, building access or storage, and carports shall comply with Item 1 or shall be at or above *grade* on not less than one side and, if enclosed with walls, such walls shall comply with Item 7.
4. Detached *accessory structures* and detached garages shall comply with either of the following:
 - 4.1. The bottom of the lowest horizontal structural member supporting the floors shall be elevated to or above the elevation required in Item 1.
 - 4.2. Floors below the elevations required in Item 1 must be:
 - 4.2.1. Used only for parking or storage.
 - 4.2.2. One *story*.
 - 4.2.3. Anchored to resist flotation, collapse or lateral movement resulting from design flood loads.
 - 4.2.4. Constructed of flood damage-resistant materials that comply with Section R306.1.8.
 - 4.2.5. Equipped with electrical systems, if applicable, that comply with Section R306.1.6.
5. The use of fill for structural support is prohibited.
6. Minor grading, and the placement of minor quantities of fill, shall be permitted for landscaping and for drainage purposes under and around buildings and for support of parking slabs, pool decks, patios and walkways.

7. Walls and partitions enclosing areas below the elevation required in this section shall meet the requirements of Sections R306.3.5 and R306.3.6.

(Amd) **R306.3.5 Walls below required elevation.** Walls and partitions are permitted below the elevation required in Section R306.3.2, provided that such walls and partitions are not part of the structural support of the *building* or *structure* and:

1. Electrical, mechanical and plumbing system components are not to be mounted on or penetrate through walls that are designed to break away under flood loads; and
2. Are constructed with insect screening or open lattice; or
3. Are designed to break away or collapse without causing collapse, displacement or other structural damage to the elevated portion of the *building* or supporting foundation system. Such walls, framing and connections shall have a resistance of not less than 10 pounds per square foot (479 Pa) and not more than 20 pounds per square foot (958 Pa) as determined using allowable stress design; or
4. Where wind loading values of this code exceed 20 pounds per square foot (958 Pa), as determined using allowable stress design, the *construction documents* shall include documentation prepared and sealed by a *registered design professional* that:
 - 4.1. The walls and partitions below the required elevation have been designed to collapse from a water load less than that which would occur during the base flood.
 - 4.2. The elevated portion of the *building* and supporting foundation system have been designed to withstand the effects of wind and flood loads acting simultaneously on structural and nonstructural *building* components. Water-loading values used shall be those associated with the design flood. Wind-loading values shall be those required by this code.
5. Walls intended to break away under flood loads as specified in Item 3 or 4 have flood openings that meet the criteria in Section R306.2.2, Item 2.

Exceptions: The following shall not be required to comply with this section:

1. Elevator shafts that conform to the FEMA Technical Bulletin 4: Elevator Installation.
2. Utility chases that protect utility lines from freezing, provided that the utility chases are the minimum size necessary to protect the utility lines and do not provide access for a *person* to enter the space.

(Amd) **R309.1 Townhouse automatic sprinkler systems.** When an automatic residential sprinkler system is to be installed in *townhouses*, it *shall* be designed and installed in accordance with Section P2904 or NFPA 13D.

(Del) **R309.1.1 Design and installation.** Delete section.

(Amd) **R309.2 One- and two-family dwellings automatic systems.** When an automatic sprinkler system is to be installed in *one- and two-family dwellings*, it *shall* be designed and installed in accordance with Section P2904 or NFPA 13D.

(Del) **R309.2.1 Design and installation.** Delete section.

(Amd) **R310.2.1 New construction.** Smoke alarms shall be provided in *dwelling units* and *accessory structures* with *sleeping rooms*.

(Amd) **R310.2.2 Alterations, repairs and additions.** When *alterations*, *repairs* or *additions* requiring a *permit* occur, or when one or more sleeping rooms are added or created in existing *dwellings*, the entire *dwelling unit* *shall* be provided with smoke alarms located as required for new *dwellings*.

Exceptions:

1. Work involving the *exterior surfaces* of *dwellings*, such as the replacement of roofing or siding, or the addition or replacement of windows or doors, or the addition of a porch or deck.
2. Installation, *alteration* or *repairs* of plumbing, mechanical or electrical.

(Add) **R310.2.3 During construction.** Pursuant to section 29-315b of the Connecticut General Statutes, whenever a *dwelling* is occupied during interior *alterations* or *additions* requiring a building permit, the temporary installation of battery-operated smoke alarms shall be required in the vicinity of such *alterations* or *additions* for the duration of construction activities. A combined smoke and *carbon monoxide alarm* may be installed to comply with Section R311.2.3 and this section.

(Amd) **R310.4 Interconnection.** Where more than one smoke alarm is required to be installed within an individual *dwelling unit* in accordance with Section R310.3, the alarm devices *shall* be interconnected in such a manner that the actuation of one alarm will activate all of the alarms in the individual unit. Physical interconnection of smoke alarms shall not be required where listed wireless alarms are installed and all alarms sound upon activation of one alarm.

Exception: Interconnection of smoke alarms in existing areas *shall not* be required where *alterations* or *repairs* do not result in removal of interior wall or ceiling finishes exposing the *structure*.

(Amd) **R311.1 Carbon monoxide alarms.** For new construction, an approved *carbon monoxide alarm* shall be installed outside of each sleeping area in the immediate vicinity of the bedrooms and on each additional habitable level of the *dwelling unit*. When more than one *carbon monoxide alarm* is required to be installed within an individual *dwelling unit* the alarm devices shall be interconnected in such a manner that the actuation of one *carbon monoxide alarm* will activate all of the *carbon monoxide alarms* in the individual unit. The alarm shall be clearly audible in all bedrooms over background noise levels with all intervening doors closed.

Exception: *Carbon monoxide alarms* shall not be required in *dwelling units* not containing a fuel-burning *appliance*, *fireplace* or attached garage.

(Amd) **R311.2.1 New construction.** *Carbon monoxide alarms* shall be provided in *dwelling units* and *accessory structures* with sleeping rooms where either or both of the following conditions exist.

1. The *dwelling unit* or *accessory structure* contains a fuel-fired *appliance*.
2. The *dwelling unit* or *accessory structure* has an attached garage with an opening that communicates with the *dwelling unit*.

(Amd) **R311.2.2 Alterations, repairs and additions.** Where *alterations*, *repairs* or *additions* requiring a *permit* occur, or where one or more sleeping rooms are added or created in existing dwellings, the individual *dwelling unit* shall be equipped with *carbon monoxide alarms* located as required for new *dwellings*.

Exceptions:

1. Work involving the exterior surfaces of *dwellings*, such as the replacement of roofing or siding, or the addition or replacement of windows or doors, or the addition of a porch or deck.
2. Installation, *alteration* or *repairs* of plumbing, mechanical, or electrical systems that are not fuel-fired.

(Add) **R311.2.3 During construction.** Pursuant to section 29-315b of the Connecticut General Statutes, whenever a *dwelling* is occupied during interior *alterations* or *additions* requiring a building *permit* where a fuel-fired *appliance*, *fireplace* or attached *garage* exists, the temporary installation of battery-operated *carbon monoxide alarms* shall be required in the vicinity of such *alterations* or *additions* for the duration of construction activities. A combined smoke and *carbon monoxide alarm* may be installed to comply with Section R310.2.3 and this section.

(Amd) **R311.3 Location.** *Carbon monoxide alarms* in dwelling units shall be installed outside of each separate sleeping area in the immediate vicinity of the bedrooms and on each additional habitable level of the dwelling unit. Where a fuel-burning appliance is located within a bedroom or its attached bathroom, a carbon monoxide alarm shall be installed within the bedroom. The alarm shall be clearly audible in all bedrooms over background noise levels with all intervening doors closed.

(Amd) **R317.1 Floor surface.** Garage floor surfaces shall be of approved noncombustible material. The area of floor used for parking of automobiles or other vehicles shall be sloped to facilitate the movement of liquids to an approved drain or toward the main vehicle entry doorway.

Exception: Detached garages that are separated from the dwelling by a minimum distance of 10 feet (3048 mm).

(Add) **R317.6.1 New construction.** A heat detector shall be installed in each attached garage that is rated between 175 and 250 degrees Fahrenheit (79 and 121 degrees Celsius) and interconnected in such a manner that the actuation of one alarm will activate all the alarms in the individual dwelling unit.

(Add) **R317.6.2 Alterations, repairs and additions.** When alterations, repairs or additions requiring a permit occur, or when one or more sleeping rooms are added or created in existing dwellings, a heat detector shall be installed in each attached garage that is rated between 175 and 250 degrees Fahrenheit (79 and 121 degrees Celsius) and interconnected in such a manner that the actuation of one alarm will activate all the alarms in the individual dwelling unit. Physical interconnection of heat detectors shall not be required where a listed wireless alarm system is installed and all alarms sound upon the activation of one alarm.

Exceptions:

1. Work involving the exterior surfaces of dwellings, such as the replacement of roofing or siding, or the addition or replacement of windows or doors, or the addition of a porch or deck.
2. Installation, alteration or repairs of plumbing, mechanical or electrical systems are exempt from the requirements of this section.

(Amd) **R318.3.1 Floor elevations at the required egress doors.** Landings or finished floors at the required egress door shall not be more than 1½ inches (38 mm) lower than the top of the threshold.

Exception: The landing or floor on the exterior side shall not be more than 8¼ inches (209.5 mm) below the top of the threshold, provided the door does not swing over the landing or the floor.

Where exterior landings or floors serving the required egress door are not at grade, they shall be provided with access to grade by means of a ramp in accordance with Section R318.8 or a stairway in accordance with Section R318.7.

(Amd) **R318.3.2 Floor elevations for other exterior doors.** Exterior doors other than the required egress door shall be provided with landings or floors not more than 8¼ inches (209.5 mm) below the top of the threshold.

Exception: An exterior landing or floor is not required at the exterior doorway 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 the door, provided the door does not swing over the stairway.

(Amd) **R318.7.1 Width.** Stairways shall not be less than 36 inches (914 mm) in clear width at all points above the permitted handrail height and below the required headroom height. The clear width of stairways at and below the handrail height, including treads and landings, shall not be less than 31½ inches (800 mm) where a handrail is installed on one side and 27 inches (686 mm) where handrails are provided on both sides.

Exceptions:

1. The width of spiral stairways shall be in accordance with Section R318.7.11.1.

2. The width of existing *stairways* serving existing unfinished *attics* or existing unfinished *basements* being converted to *habitable space* or replacement *stairways* within existing *dwellings* shall not be less than 32 inches (813 mm) in clear width at all points above the permitted *handrail* height and below the required headroom height. The clear width of *stairways* at and below the *handrail* height, including treads and landings, shall not be less than 28 inches (711 mm) where a *handrail* is installed on one side and 24 inches (610 mm) where *handrails* are provided on both sides.
3. Where an incline platform lift or *stairway* chairlift is installed on a *stairway* within a *dwelling unit*, a clear passage width not less than 20 inches (508 mm) shall be provided. If the seat and platform can be folded when not in use, the distance shall be measured from the folded position.

(Amd) **R318.7.2 Headroom.** The minimum headroom in all parts of the *stairway* shall not be less than 6 feet 8 inches (2032 mm) measured vertically from the sloped line adjoining the tread *nosing* or from the floor surface of the landing or platform on that portion of the *stairway*.

Exceptions:

1. Where the *nosing* of treads at the side of a *flight* extend under the edge of a floor opening through which the stair passes, the floor opening shall be allowed to project horizontally into the required headroom a maximum of 4 $\frac{3}{4}$ inches (121 mm).
2. The minimum headroom in all parts of existing *stairways* serving existing unfinished *attics* or existing unfinished *basements* being converted to *habitable space* or replacement *stairs* where the pitch or slope cannot be reduced because of existing construction shall be 6 feet, 4 inches (1930 mm), measured in accordance with this section.

(Amd) **R318.7.5.1 Risers.** The *riser* height shall be not more than 8 $\frac{1}{4}$ inches (209.5 mm). The *riser* height shall be measured vertically between leading edges of adjacent treads. The greatest *riser* height within any *flight of stairs* shall not exceed the smallest by more than $\frac{3}{8}$ inch (9.5 mm). *Risers* shall be vertical or sloped from the underside of the *nosing* of the tread above at an angle not more than 30 degrees (0.51 rad) from the vertical. Open *risers* are permitted, provided that the opening between treads does not permit the passage of a 4-inch-diameter (102 mm) sphere.

Exceptions:

1. The maximum *riser* height of existing *stairs* serving existing unfinished *attics* or existing unfinished *basements* being converted to *habitable space* or replacement *stairs* where the pitch or slope cannot be reduced because of existing construction shall be 9 inches (229 mm), measured in accordance with this section.
2. The opening between adjacent treads is not limited on spiral *stairways*.
3. The *riser* height of spiral *stairways* shall be in accordance with Section R318.7.11.1.

(Amd) **R318.7.5.2 Treads.** The minimum tread depth shall be 9 inches (229 mm). 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. The greatest tread depth within any *flight of stairs* shall not exceed the smallest by more than $\frac{3}{8}$ inch (9.5 mm).

Exception: The minimum tread depth of existing *stairs* serving existing unfinished *attics* or existing unfinished *basements* being converted to *habitable space* or replacement *stairs* within existing *dwellings* shall be 8 inches (203 mm), measured in accordance with this section.

(Amd) **R318.7.6 Landings for stairways.** There shall be a floor or landing at the top and bottom of each *flight of stairs*. The width perpendicular to the direction of travel shall be not less than the width of the *flight* served. For landings of shapes other than square or rectangular, the depth at the walk line and the total area shall be not less than that of a quarter circle with a radius equal to the required landing width. Where the *stairway* has a straight run, the depth in the direction of travel shall be not less than 36 inches (914 mm).

Exceptions:

1. The top landing of an interior *stairway*, including those in an enclosed garage, *shall* be permitted to be on the other side of a door located at the top of the *stairway*, provided that the door does not swing over the *stairs*.
2. At an enclosed garage, the top landing at the *stair* shall be permitted to be not more than 8 1/4 inches (209.5 mm) below the top of the threshold.
3. At exterior doors, a top landing is not required for an exterior *stairway* of three or fewer *risers*, provided that the door does not swing over the *stairway*.
4. Exterior *stairways* to grade with three or fewer *risers* serving a deck, porch or patio shall have a bottom landing width of not less than 36 inches (914 mm), provided that the *stairway* is not the required access to grade serving the required egress door.
5. The depth in the direction of travel of landings of existing stairs serving existing unfinished *attics* or *basements* being converted to *habitable space* or replacement *stairs* within existing *dwellings* shall be at least equal to the *stair* width but not less than 32 inches (813 mm) where Section R318.7.1, Exception 2 is utilized for a reduced *stair* width.

(Del) **R318.7.9 Stairways in existing buildings.** Delete section.

(Amd) **R319.1 Emergency escape and rescue openings required.** *Habitable spaces* located within *basements*, *habitable spaces* located in *attics*, the room to which a *sleeping loft* is open to, and every *sleeping room* *shall* have not less than one operable *emergency escape and rescue opening*. Where *basements* and *attics* 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 spaces* of the *basement* or *attic*. *Emergency escape and rescue openings* *shall* open directly into a *public way*, or to a *yard* or *court* that opens to a *public way*.

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, means of egress.
2. In existing *buildings*, *basements* and *attics* being converted to *habitable space* without *sleeping rooms* are not required to have *emergency escape and rescue openings*.
3. A *yard* shall not be required to open directly into a *public way* where the *yard* opens to an unobstructed path from the *yard* to the *public way*. Such path shall have a width of not less than 36 inches (914 mm).

(Amd) **R319.2.1 Minimum size.** *Emergency escape and rescue openings* *shall* have a net clear opening of not less than 5.7 square feet (0.530 m²).

Exceptions:

Grade floor openings or below grade openings shall have a net clear opening of not less than 5 square feet (0.465 m²).

(Amd) **R319.2.3 Maximum height from floor.** Emergency escape and rescue openings shall have the bottom of the clear opening not greater than 44 inches (1118 mm) above the floor.

Exception: The 44-inch (1118 mm) 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 R318.7.5.1 and R318.7.5.2. Glazing in windows complying with this exception *shall* not be subject to the provisions of Section R324.4.6 or R324.4.7.

(Amd) **R319.5 Replacement windows for emergency escape and rescue openings.** Replacement windows for *emergency escape and rescue openings* installed in *buildings* meeting the scope of this code shall be exempt from Sections R319.2 and R319.4.4, provided that the replacement window meets the following conditions:

1. The replacement window is the manufacturer's largest standard size window that will fit within the existing frame or existing rough opening. The replacement window shall be permitted to be of the same operating style as the existing window or a style that provides for an equal or greater window opening area than the existing window.
2. The replacement window is not part of a *change of occupancy*.
3. 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) **R319.6 Dwelling additions.** Where *dwelling unit additions* contain sleeping rooms, an *emergency escape and rescue opening* shall be provided in each new sleeping room. Where *dwelling unit additions* have *basements*, an *emergency escape and rescue opening* shall be provided in the new habitable *basement*.

Exceptions:

1. An *emergency escape and rescue opening* is not required in a new *basement* that contains a sleeping room with an *emergency escape and rescue opening*.
2. An *emergency escape and rescue opening* is not required in a new *basement* where there is an *emergency escape and rescue opening* in an existing *basement* that is accessed from the new *basement*.
3. An operable window complying with Section R319.7.1 shall be acceptable as an *emergency escape and rescue opening*.
4. Habitable *basements* without sleeping rooms are not required to have *emergency escape and rescue openings* when they are provided with two remote, code-compliant, means of egress.

(Add) **R321.1.1.1 Retaining wall guards.** Retaining walls with a difference in height between the finished grade at the top of the wall and the finished grade at the bottom of the wall that is greater than 4 feet (1219 mm) shall be provided with *guards* complying with Section R321 when there is a walking surface, parking lot or driveway on the high side located closer than 2 feet (610 mm) to the nearest side of the retaining wall. For the purposes of this section, grass, planting beds or landscaped areas are not a walking surface.

(Del) **SECTION R322– ACCESSIBILITY.** Delete section in its entirety and replace with the following:

(Add) SECTION R322 – ACCESSIBILITY

(Add) **R322.1 Dwelling units.** 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 multistory *townhouses*. For the purposes of this section, a one-story above-grade *townhouse* with a finished *basement* shall be considered a multistory *townhouse*. Required Type B units shall comply with ICC A117.1 *Accessible and Usable Buildings and Facilities with Supplement 1*, 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 Multistory townhouses.** *Buildings or complexes* that contain 10 or more multistory *townhouses* shall have at least 10 percent *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 multistory *townhouses* that incorporate a *Type B unit* on the street floor or by a combination of the two. Multistory *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* may 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 percent, provided not less than 20 percent 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 both of the following:

1. A difference in elevation between the minimum required floor elevation at the primary entrance and the closest vehicular and pedestrian arrival points.
2. A slope exceeding 10 percent 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 1 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 *International Building Code* portion of the Connecticut 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 percent, but not less than one, of each type of parking space provided in occupancies 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 persons who are blind and persons with disabilities shall be as near as possible to a building entrance or walkway and shall be 15 feet (4572 mm) wide, including 5 feet (1524 mm) of cross hatch.

(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 persons who are blind and persons with disabilities shall be as near as possible to a building entrance or walkway and shall be 16 feet (4877 mm) wide, including 8 feet (2438 mm) of cross hatch.

(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 (2489 mm) 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 (2489 mm) of vertical clearance.

(Amd) **R323.1 Elevators.** Where provided, passenger elevators, limited use/limited application elevators or residential elevators installed in private residences *shall* comply with ASME A17.1 and *shall* be installed in accordance with regulations adopted under authority of section 29-192 of the Connecticut General Statutes. Where the provisions of this section conflict with the regulations adopted under chapter 538 of the Connecticut General Statutes, the requirements of the regulations shall prevail.

(Del) **R323.1.1 Private residence elevators.** Delete section and all subsections.

(Amd) **R328.1 General.** The design and construction of pools and spas shall comply with the *International Swimming Pool and Spa Code* portion of the Connecticut State Building Code.

(Amd) **R329.3 Photovoltaic systems.** Photovoltaic systems *shall* be designed and installed in accordance with Sections R329.3.1 through R329.7.2, the manufacturer's installation instructions and the NFPA 70, *National Electrical Code* portion of the Connecticut State Building Code.

(Amd) **R329.4.1.1 Roof load.** Portions of roof *structures* not covered with *photovoltaic panel systems* shall be designed for dead loads and roof loads in accordance with Sections R301.4 and R301.6. Portions of roof *structures* covered with *photovoltaic panel systems* shall be designed for the following load cases:

1. Dead load (including *photovoltaic panel* weight) plus snow load in accordance with Table R301.2.

(Add) **R329.5.3 Required signage.** Where a BIPV system is installed, a placard shall be provided on the outside of the building at the electrical service meter location to which the BIPV system is connected. The placard shall display a fire fighter Maltese cross with "PV" printed in the center of the cross. The placard shall be not less than 4 inches (102 mm) by 6 inches (152 mm) in size and made of an approved durable material.

(Amd) **R329.6 Roof access and pathways.** Roof access, pathways and setback requirements shall be provided in accordance with Sections R329.6.1 through R329.6.2.1. Access and minimum spacing shall be required to provide emergency access to the roof, to provide pathways to specific areas of the roof, to provide for smoke ventilation opportunity areas and to provide emergency egress from the roof.

Exceptions:

1. Detached, nonhabitable *structures*, including, but not limited to, detached garages, parking shade *structures*, carports, solar trellises and similar *structures*, shall not be required to provide roof access.
2. These requirements shall not apply to roofs with slopes of 2 units vertical in 12 units horizontal (17-percent slope) or less.
3. BIPV systems *listed* in accordance with UL 3741, where the removal or cutting away of portions of the BIPV system during fire-fighting operations has been determined to not expose a fire fighter to electrical shock hazards.

(Amd) **R329.6.1 Pathways.** Not fewer than two pathways, on separate roof planes from the lowest roof edge to ridge and not less than 36 inches (914 mm) wide, *shall* be provided on all buildings. Not fewer than one pathway *shall* be provided on the street or driveway side of the roof. For each roof plane with a photovoltaic array, a pathway not less than 36 inches (914 mm) wide *shall* be provided from the lowest roof edge to ridge on the same roof plane as the photovoltaic array, on an adjacent roof plane, or straddling the same and adjacent roof planes. Pathways *shall* be over areas capable of supporting fire fighters accessing the roof. Pathways shall be located in areas with minimal obstructions such as *vent pipes*, conduit or mechanical equipment.

Exceptions:

1. Where photovoltaic arrays are installed on only one roof slope of a single ridge roof and there is clear access on the opposing slope, and that opposing slope has at least one roof access point in accordance with Section R329.6.5, the pathways from the lowest roof edge to the ridge shall not be required on the roof slope containing the photovoltaic arrays.
2. Where photovoltaic arrays are installed on only one side of the hip rafter of a hipped roof and there is clear access on the opposing slope, and that opposing slope has at least one roof access point in accordance with Section R329.6.5, the pathways from the lowest roof edge to the ridge shall not be required on the roof slope containing the photovoltaic arrays.
3. Where photovoltaic arrays are installed on only one side of the valley beam of a valleyed roof and there is clear access on the opposing slope, and that opposing slope has at least one roof access point in accordance with Section R329.6.5, the pathways from the lowest roof edge to the ridge shall not be required on the roof slope containing the photovoltaic arrays.

(Amd) **R329.6.2 Setback at ridge.** For photovoltaic arrays occupying not more than 33 percent of the plan view total roof area, not less than an 18-inch (457 mm) clear setback is required on both sides of a horizontal ridge. For photovoltaic arrays occupying more than 33 percent of the plan view total roof area, not less than a 36-inch (914 mm) clear setback is required on both sides of a horizontal ridge.

Exceptions:

1. This requirement shall not apply to roofs with slopes of two vertical units in 12 units horizontal (17 percent) and less.
2. A 12-inch setback is permitted where panels are installed on only one roof slope and there are no panels installed on the opposing slope with clear access.

(Add) **R329.6.5 Roof access points.** Where required by other sections of this code, roof access points *shall* be located in areas that do not require the placement of ground ladders over openings, such as windows or doors, and located at strong points of building construction in locations where the access point does not conflict with overhead obstructions such as tree limbs, wires or signs.

CHAPTER 4 – FOUNDATIONS

(Amd) **R401.4 Soil tests.** Where quantifiable data created by accepted soil science methodologies indicate *expansive soils*, *compressible soils*, shifting soils or other questionable soil characteristics are likely to be present, the *building official* shall determine whether to require a soil test to determine the soil's characteristics at a particular location. This test shall be done by an *approved agency* using an *approved* method.

(Amd) **R403.1 General.** All *exterior walls* *shall* be supported on continuous solid or fully grouted *masonry* or *concrete* footings, crushed stone 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. Footings *shall* be supported on undisturbed natural soils or engineered fill. *Concrete* footings *shall* be designed and constructed in accordance with the provisions of Section R403 or in accordance with ACI 332.

Exception: Freestanding *accessory structures* with an area of 600 square feet (56 m²) or less and an eave height of 10 feet (3048 mm) or less.

Footings and freestanding *accessory structures* as exempted in this section *shall* be supported on undisturbed natural soils or engineered fill and *shall* be anchored to resist wind-induced uplift and overturning.

(Del) **R403.1.2 Continuous footing in Seismic Design Categories D₀, D₁ and D₂.** Delete section.

(Del) **TABLE R403.1.2 CONTINOUS FOOTING REQUIREMENTS IN SEISMIC DESIGN CATEGORIES D₀, D₁ and D₂.** Delete table in its entirety without substitution.

(Del) **R403.1.3 Footing and stem wall reinforcing in Seismic Design Categories D₀, D₁ and D₂.** Delete section.

(Del) **FIGURE R403.1.3 REINFORCED CONCRETE FOOTINGS AND MASONRY AND CONCRETE STEM WALLS IN SDC D₀, D₁ AND D₂.** Delete figure in its entirety.

(Del) **R403.1.3.1 Concrete stem walls with concrete footings.** Delete section.

(Del) **R403.1.3.2 Masonry stem walls with concrete footings.** Delete section.

(Del) **R403.1.3.3 Slabs-on-ground with turned-down footings.** Delete section.

(Del) **R403.1.3.4 Interior bearing and braced wall panel footings in Seismic Design Categories D₀, D₁ and D₂.** Delete section.

(Del) **R403.1.3.5 Reinforcement.** Delete section and all subsections.

(Del) **R403.1.3.6 Isolated concrete footings.** Delete section.

(Amd) **R403.1.4.1 Frost protection.** Footings *shall* not bear on frozen soil. 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. Extended below the frost line specified in Table R301.2.
2. Constructed in accordance with Section R403.3.
3. Constructed in accordance with ASCE 32.
4. Erected on solid rock.

Exceptions:

1. Protection of freestanding *accessory structures* with an area of 600 square feet (56 m²) or less, of light-frame construction, with an eave height of 10 feet (3048 mm) or less *shall* not be required.
2. Protection of freestanding *accessory structures* with an area of 400 square feet (37 m²) or less, of other than light-frame construction, with an eave height of 10 feet (3048 mm) or less *shall* not be required.
3. Decks and ramps not supported by a *dwelling* need not be provided with footings that extend below the frost line.
4. The footing for the grade-level termination of *stairs* or *ramps* attached to decks or landings, whether the deck or landing is supported by a *dwelling* or not, *shall* only be required to be placed at least 12 inches (305 mm) below the undisturbed ground surface in accordance with Section R403.1.4.

(Add) **R404.4.1 Guards.** Retaining walls with a difference in height between the finished grade at the top of the wall and the finished grade at the bottom of the wall that is greater than 4 feet (1219 mm) *shall* be provided with *guards* complying with Sections R321.1.2 and R321.1.3 where there is a walking surface, parking lot or driveway on the high side located closer than 2 feet (610 mm) to the nearest side of the retaining wall. For the purpose of this section, grass, planting beds or landscaped areas *shall* not be a walking surface.

(Add) **R404.6 Deep foundations.** *Deep foundations shall* comply with the requirements set forth in Section 1810 of the *International Building Code* portion of the Connecticut State Building Code.

(Add) **R404.6.1 Special inspections of deep foundations.** Special inspections of *deep foundations* shall be performed in accordance with Sections 1705.7 through 1705.10, as applicable, of the *International Building Code* portion of the Connecticut State Building Code.

(Add) **R405.3 Above-grade drainage.** Above-grade drainage systems, including, but not limited to, gutters and downspouts, roof *drains*, and yard *drains*, *shall* not be connected to the foundation drainage system.

CHAPTER 6 – WALL CONSTRUCTION

(Amd) **Table R602.7(1), Footnote e.** Use 30 psf ground snow *load* for cases in which ground snow *load* is less than 30 psf and the *roof live load* is equal to or less than 20 psf. For ground snow *loads* between 30 and 70 psf, linear interpolation is permitted.

(Amd) **Table R602.7(3), Footnote b.** Tabulated values assume #2 *grade* lumber, wet service and incising for refractory species. Use 30 psf ground snow *load* for cases in which ground snow *load* is less than 30 psf and the *roof live load* is equal to or less than 20 psf. For ground snow *loads* between 30 and 70 psf, linear interpolation is permitted.

CHAPTER 8 – ROOF-CEILING CONSTRUCTION

(Amd) **R802.4.1 Rafter size.** Rafters *shall* be sized based on the rafter spans in Tables R802.4.1(1) through R802.4.1(8). For ground snow *loads* other than those cited in Tables R802.4.1(3) through R802.4.1(8), rafter spans may be determined using linear interpolation. Rafter spans *shall* be measured along the horizontal projection of the rafter. For other *grades* and species and for other loading conditions, refer to the AWC STJR.

(Amd) **R802.10.2.1 Applicability limits.** The provisions of this section *shall* control the design of truss roof framing when snow controls for *buildings*, not greater than 60 feet (18288 mm) in length perpendicular to the joist, rafter or truss span, not greater than 36 feet (10973 mm) in width parallel to the joist, rafter or truss span, not more than three stories above grade plane in height with each *story* not greater than 10 feet (3048 mm) high, and roof slopes not smaller than 3:12 (25-percent slope) or greater than 12:12 (100-percent slope). Truss roof framing constructed in accordance with the provisions of this section *shall* be limited to *sites* subjected to a maximum design wind speed of 140 miles per hour (63 m/s), Exposure B or C, and a maximum ground snow *load* of 70 psf (3352 Pa). For consistent loading of all truss types, roof snow *load* is to be computed as: 1.0 *p_g*.

CHAPTER 9 – ROOF ASSEMBLIES

(Amd) **R905.1.1 Underlayment.** *Underlayment* in accordance with this section is required for asphalt shingles, clay and concrete tile, *metal roof shingles*, mineral-surfaced roll roofing, slate and slate-type shingles, wood shingles, wood shakes, *metal roof panels* and building-integrated photovoltaic (BIPV) roof coverings shall conform to the applicable standards listed in this chapter. *Underlayment* materials required to comply with ASTM D226; D1970; D2626; D4869; D6380, Class M; D6757; or D8257 shall bear a *label* indicating compliance to the standard designation and, if applicable, type classification indicated in Table R905.1.1(1). *Underlayment* shall be attached in accordance with Section R905.1.1.1. *Underlayment* shall be fastened in accordance with Section R905.1.1.2.

Exception: Structural metal panels that do not require a substrate or underlayment.

(Amd) **TABLE R905.1.1(1) – UNDERLayment TYPES**

| ROOF COVERING | SECTION | UNDERLayment TYPES |
|---------------------------------|---------|--|
| Asphalt shingles | R905.2 | ASTM D226 Type II ASTM D1970 ASTM D4869 Type III or IV ASTM D8257 |
| Clay and concrete tile | R905.3 | ASTM D226 Type II ASTM D1970 ASTM D8257 |
| Metal roof shingles | R905.4 | ASTM D226 Type II ASTM D1970 ASTM D4869 Type III or IV ASTM D8257 |
| Mineral-surfaced roll roofing | R905.5 | ASTM D226 Type II ASTM D1970 ASTM D4869 Type III or IV ASTM D8257 |
| Slate and slate-type shingles | R905.6 | ASTM D226 Type II ASTM D1970 ASTM D4869 Type III or IV ASTM D8257 |
| Wood shingles | R905.7 | ASTM D226 Type II ASTM D4869 Type III or IV |
| Wood shakes on solid sheathing | R905.8 | ASTM D226 Type II ASTM D4869 Type III or IV |
| Metal panels on solid sheathing | R905.10 | ASTM D226 Type II ASTM D1970 ASTM D4869 Type III or IV ASTM D8257 |
| BIPV roof coverings | R905.15 | ASTM D226 Type II ASTM D1970 ASTM D4869 Type III or IV ASTM D8257 |

For SI: 1 mile per hour = 0.447 m/s.

(Del) **TABLE 905.1.1(2) UNDERLayment APPLICATION.** Delete without substitution.

(Del) **TABLE 905.1.1(3) UNDERLayment ATTACHMENT.** Delete without substitution.

(Add) **R905.1.1.1 Underlayment application.** Underlayment shall be one of the following:

1. Two layers of mechanically fastened underlayment applied in the following manner: Apply a strip of underlayment that is half the width of a full sheet parallel to and starting at the eaves, fastened sufficiently to hold in place. Starting at the eave, apply full-width sheets of underlayment, overlapping successive sheets half the width of a full sheet plus 2 inches (51 mm). End laps shall be 4 inches (102 mm) and shall be offset by 6 feet (1829 mm). Distortions

in the underlayment shall not interfere with the ability of asphalt shingles or clay and concrete tile.

2. A minimum 4-inch (102 mm)-wide strip of self-adhering polymer modified bitumen underlayment complying with ASTM D1970, installed in accordance with the manufacturer's installation instructions for the deck material, shall be applied over all joints in the roof decking. An approved underlayment complying with Table R905.1.1(1) for the applicable roof covering shall be applied over the entire roof over the 4-inch (102 mm)-wide membrane strips.
3. A single layer of self-adhering polymer modified bitumen underlayment complying with ASTM D1970, installed in accordance with the underlayment and roof covering manufacturer's installation instructions for the deck material, roof ventilation configuration and climate exposure of the roof covering.

Exception: Underlayment felt shall be used for clay and concrete tiles.

(Add) **R905.1.1.2 Underlayment attachment.** Mechanically fastened underlayment shall be fastened with corrosion-resistant fasteners in a grid pattern of 12 inches (305 mm) between side laps with a 6-inch (152-mm) spacing at side and end laps. Underlayment shall be attached using annular ring or deformed shank nails with 1-inch (25 mm)-diameter metal or plastic caps. Metal caps shall have a thickness of not less than 32-gauge sheet metal. Power-driven metal caps shall have a minimum thickness of 0.010 inch (0.254 mm). Minimum thickness of the outside edge of plastic caps shall be 0.035 inch (0.889 mm). The cap nail shank shall be not less than 0.083 inch (2.11 mm). The cap nail shank shall have a length sufficient to penetrate through the roof sheathing or not less than $\frac{3}{4}$ inch (19 mm) into the roof sheathing.

Self-adhering polymer modified bitumen underlayment shall be installed in accordance with the underlayment and roof covering manufacturers' installation instructions for the deck material, roof ventilation configuration and climate exposure of the roof covering.

Exception: Self-adhering polymer modified bitumen underlayment shall not be installed under wood shakes or wood shingles.

(Amd) **TABLE R905.2.4.1. CLASSIFICATION OF ASPHALT ROOF SHINGLES**

| MAXIMUM ULTIMATE DESIGN WIND SPEED, V_{ult} FROM APPENDIX BP (mph) | MAXIMUM BASIC WIND SPEED, V_{ASD} FROM APPENDIX BP (mph) | ASTM D7158 ^a SHINGLE CLASSIFICATION | ASTM D3161 SHINGLE CLASSIFICATION |
|---|---|--|---|
| 110 | 85 | D, G or H | A, D or F |
| 116 | 90 | D, G or H | A, D or F |
| 129 | 100 | G or H | A, D or F |
| 142 | 110 | G or H | F |
| 155 | 120 | G or H | F |
| 168 | 130 | H | F |
| 181 | 140 | H | F |
| 194 | 150 | H | F |

For SI: 1 foot = 304.8 mm; 1 mph = 0.447 m/s.

a. The standard calculations contained in ASTM D7158 assume Exposure Category B or C and *building height* of 60 feet or less. Additional calculations are required for conditions outside of these assumptions.

CHAPTER 11 – ENERGY EFFICIENCY

(Amd) **N1101.4 (R102.1.1) Above-code programs.** The State Building Inspector and the Codes and Standards Committee may deem a national, state or local energy efficiency program to exceed the energy efficiency required by this chapter. Such energy efficiency program may include, but not limited to, the Leadership in Energy and Environmental Design rating system; the Green Globes USA 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.

(Add) **N1101.10.1.2 (R402.2.14) Foamed-in-place insulating material.** Pursuant to section 29-277 of the Connecticut General Statutes, foamed-in-place insulating material, except urethane foam insulation or styrene foam insulation, *shall* not be sold or installed in this state on or after May 28, 2013, unless the manufacturer or supplier has certified to the State Building Inspector that the material complies with the provisions of that section.

(Add) **N1101.15 (R101.4.2) 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 any regulations adopted under authority of said section.

(Amd) **N1102.1 (R402.1) General (Prescriptive).** The *building thermal envelope* *shall* comply with the requirements of one of the following:

1. Sections N1102.1.1 through N1102.1.4 and Section N1102.1.6.
2. Sections N1102.1.1, N1102.1.5 and N1102.1.6.

Exceptions:

1. The following low energy *buildings*, or portions thereof, separated from the remainder of the *building* by *building thermal envelope* assemblies complying with this section *shall* be exempt from the *building thermal envelope* provisions of Section N1102.
 - 1.1. Those with a peak design rate of energy usage less than 3.4 Btu/h ft² (10.7 W/m²) or 1.0 watt/ft² of floor area for space-conditioning purposes.
 - 1.2. Those that do not contain *conditioned space*.
 - 1.3. *Buildings* and *structures* for which heating and cooling is supplied solely by utilization of nonpurchased 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, nonrenewable sources.
2. Log homes designed in accordance with ICC 400.

(Add) **N1103.3.1.1 (R403.3.1.1) Duct insulation values.** Minimum duct insulation values stated in Section N1103.3.1 *shall* be installed *R*-values.

(Amd) **N1103.6 (R403.6) Mechanical ventilation.** The buildings and *dwelling units* complying with Section N1102.5.1.1 shall be provided with ventilation that complies with the requirements of Section M1505.4 of the *International Residential Code* or Section 403 of the *International Mechanical Code* portion of the Connecticut State Building Code, as applicable, or with other approved means of ventilation. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.

(Amd) **N1106.2 (R406.2) ERI compliance.** Compliance based on the Energy Rating Index (ERI) requires that the rated design and as-built *dwelling unit* meet all of the following:

1. The requirements of the sections indicated within Table N1106.2.
2. Maximum ERI values indicated in Section N1106.5.

(Amd) N1106.5 (R406.5) ERI-based compliance.

Compliance based on an *ERI* analysis requires that the *rated design* and each confirmed as-built *dwelling unit* be shown to have an ERI as follows:

1. Where on-site renewables are not installed, the values shall be less than or equal to 54.
2. Where on-site renewables are installed, the values shall be less than or equal to 43.

(Del) TABLE N1106.5 (R406.5) MAXIMUM ENERGY RATING INDEX. Delete without substitution.

(Amd) N1110.2.1 (R502.2.2) Building thermal envelope. New *building thermal envelope* assemblies that are part of the *addition* shall comply with Sections N1102.1, N1102.2, N1102.4.1 through N1102.4.5, and N1102.5.

Exceptions:

1. New *building thermal envelope* assemblies are exempt from the requirements of Section N1102.5.1.2.
2. A visual inspection of the *building thermal envelope* tightness and insulation shall be considered acceptable when the items listed in Table N1102.5.1.1 (R402.5.1.1), applicable to the method of construction, are field verified. Where required by the code official, an *approved* party independent from the installer of the insulation shall inspect the air barrier and insulation.

CHAPTER 13 – GENERAL MECHANICAL SYSTEM REQUIREMENTS

(Amd) M1301.1 Scope. The provisions of this chapter shall govern the installation of mechanical systems not specifically covered in other chapters applicable to mechanical systems. Installations of mechanical appliances, *equipment* and systems not addressed by this code shall comply with the applicable provisions of the *International Mechanical Code* portion of the Connecticut State Building Code and requirements as noted in Section R101.4.1 for fuel gas.

CHAPTER 15 – EXHAUST SYSTEMS

(Amd) M1502.4.2 Duct installation. Exhaust ducts shall be supported at intervals not to exceed 12 feet (3658 mm) and shall be secured in place. The insert end of the duct shall extend into the adjoining duct or fitting in the direction of airflow. Exhaust duct joints shall be sealed in accordance with Section M1601.4.1 and shall be mechanically fastened. Ducts shall not be joined with screws or similar fasteners that protrude more than 1/8 inch (3.2 mm) into the inside of the duct. Where dryer exhaust ducts are enclosed in wall or ceiling cavities, such cavities shall allow the installation of the duct without deformation.

Exception: Manufactured oval duct with an equivalent diameter of 4 inches (102 mm) shall be allowed.

CHAPTER 19 – SPECIAL APPLIANCES, EQUIPMENT AND SYSTEMS

(Amd) M1904.1 Installation. Gaseous hydrogen shall be installed in accordance with the applicable requirements of Sections M1307.4 and M1903.1 and the *International Building Code* portion of the Connecticut State Building Code, and the requirements as noted in Section R101.4.1 for fuel gas.

CHAPTER 20 – BOILERS AND WATER HEATERS

M2006.1 General. Pool and spa heaters shall be installed in accordance with the manufacturer's installation instructions, the *International Swimming Pool and Spa Code* portion of the Connecticut State Building Code, and this section.

Exception: Portable residential spas and portable residential exercise spas shall be *listed* and *labeled* in accordance with UL 1563 or CSA C22.2 No. 218.1.

CHAPTER 21 – HYDRONIC PIPING

(Amd) **TABLE M2101.9 HANGER SPACING INTERVALS**

| PIPING MATERIAL | MAXIMUM HORIZONTAL SPACING (feet) | MAXIMUM VERTICAL SPACING (feet) |
|--|-----------------------------------|---------------------------------|
| ABS | 4 | 10 ^a |
| CPVC \leq 1-inch pipe or tubing | 3 | 5 ^a |
| CPVC \geq 1 $\frac{1}{4}$ inch diameter | 4 | 10 ^a |
| Copper or copper-alloy pipe | 12 | 10 |
| Copper or copper-alloy tubing | 6 | 10 |
| PE pipe or tubing | 2.67 | 4 |
| PE-RT \leq 1 inch diameter | 2.67 | 10 ^a |
| PE-RT \geq 1 $\frac{1}{4}$ inch diameter | 4 | 10 ^a |
| PEX tubing \leq 1 inch diameter | 2.67 | 4 |
| PEX tubing \geq 1 $\frac{1}{4}$ inch diameter | 4 | 10 ^a |
| Cross-linked polyethylene/aluminum/crosslinked polyethylene (PEX-AL-PEX) pipe smaller than 1 inch diameter | 2.67 ^b | 10 ^{a, c} |
| Cross-linked polyethylene/aluminum/crosslinked polyethylene (PEX-AL-PEX) pipe 1 inch diameter and larger | 4 ^b | 10 ^a |
| PP $<$ 1-inch diameter pipe or tubing | 2.67 ^b | 4 |
| PP $>$ 1 inch diameter | 4 ^b | 10 ^a |
| PVC | 4 | 10 ^a |
| Steel pipe | 12 | 15 |
| Steel tubing | 8 | 10 |

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

- a. For sizes 2 inches diameter and smaller, a guide *shall* be installed midway between required vertical supports. Such guides shall prevent pipe movement in a direction perpendicular to the axis of the pipe.
- b. The maximum horizontal spacing of PP or PP-RCT pipe hangers *shall* be increased to manufacturer's installation requirements based on maximum operating temperature design.

c. The maximum horizontal or vertical spacing of PP, PP -RCT or PEX-AL-PEX pipe hangers *shall* be increased to manufacturer's installation requirements based on maximum operating temperature design and incorporation of pipe or tube supports per manufacturer requirements.

CHAPTER 22 – SPECIAL PIPING AND STORAGE SYSTEMS

(Amd) **M2201.7 Tank abandonment and removal.** Tank abandonment and removal shall be in accordance with Section M2201.7.1, M2201.7.2 or M2201.7.3.

(Add) **M2201.7.1 Removal from service of tanks and related equipment.** Except as provided in Section M2201.7.2 or M2201.7.3, if a tank and its related piping are abandoned for any reason, the tank and all piping connected to it, including the outside fill and vent piping and any piping connected to the *appliance*, *shall* be emptied of all contents, cleaned, removed from the premises or property, and disposed of in accordance with applicable local, state, and federal rules and regulations.

(Add) **M2201.7.2 Temporary removal from service.** If a liquid fuel-burning *appliance* is converted to an alternate fuel, but the tank is kept in place so that it can be returned to service at some future date, the following requirements *shall* be met before the alternate fuel is used:

1. The entire contents of the tank *shall* be completely removed and the tank purged of all vapors.
2. The fuel tank vent line *shall* remain intact and open.
3. The outside fill pipe *shall* be removed, and the tank opening *shall* be capped or plugged or the outside fill pipe *shall* be capped and filled with *concrete*, and all remaining piping, other than the vent line, *shall* be capped or sealed.

(Add) **M2201.7.3 Permanent abandonment of underground tanks.** Underground tanks *shall* be permitted to be permanently closed in place if the following requirements are met:

1. All applicable authorities having *jurisdiction* *shall* be notified.
2. A safe workplace *shall* be maintained throughout the prescribed activities.
3. All flammable and *combustible liquids* and residues *shall* be removed from the tank, appurtenances and piping, and *shall* be disposed of in accordance with regulatory requirements and industry practices, using a written procedure.
4. The tank, appurtenances, and piping *shall* be made safe by either purging them of flammable vapors or inerting the potential *explosive* atmosphere. Confirmation that the atmosphere in the tank is safe *shall* be by testing of the atmosphere using a combustible gas indicator if purging, or an oxygen meter if inerting, at intervals in accordance with written procedures.
5. Access to the tank *shall* be made by careful excavation to the top of the tank.
6. All exposed piping, gauging and tank fixtures, and other appurtenances, except the vent, *shall* be disconnected and removed.
7. The tank *shall* be completely filled with an inert solid material.
8. The tank vent and remaining underground piping *shall* be capped or removed.
9. The tank excavation *shall* be backfilled.

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 Connecticut State Building Code, such terms *shall* have the meanings ascribed to them as in those portions of the code.

(Amd) **DESIGN FLOOD ELEVATION.** The elevation of the crest of the base flood (100-year flood) plus an additional 1 foot of freeboard, relative to the datum specified on the community's legally designated

flood hazard map, flood insurance rate map or flood insurance study (AE, VE Zones). In areas designated as Zone AO, the Design Flood Elevation shall be the elevation of the highest existing grade of the building's perimeter plus the depth number (in feet) specified on the flood hazard map, flood insurance rate map or flood insurance study.

(Amd) **G2412.2 Liquefied petroleum gas storage.** The storage system for liquefied petroleum gas *shall* be designed and installed in accordance with NFPA 58, *Liquefied Petroleum Gas Code*.

(Add) **G2412.2.1 Identification label.** LP-gas fuel suppliers *shall* affix and maintain in a legible condition, their firm name(s) and emergency telephone number(s) in a readily visible location on LP-gas supplier-owned Department of Transportation (DOT) and American Society of Mechanical Engineers (ASME) containers installed on a consumer's premises. The firm name(s) and emergency telephone number(s) *shall* be at least $\frac{1}{2}$ inch (12.7 mm) high and of contrasting color to the container. The emergency telephone number(s) *shall* be staffed 24 hours a day to ensure that the LP-gas supplier is available in the event of an emergency at the consumer's premises. Cylinders, tanks or containers *shall* be filled, evacuated or transported only by the *owner* of the cylinder, tank or container or upon the *owner's* authorization.

CHAPTER 26 – GENERAL PLUMBING REQUIREMENTS

(Del) **P2603.5.1 Sewer depth.** Delete without substitution.

(Amd) **TABLE P2605.1 PIPING SUPPORT**

| PIPING MATERIAL | MAXIMUM HORIZONTAL SPACING (feet) | MAXIMUM VERTICAL SPACING (feet) |
|---|-----------------------------------|---------------------------------|
| ABS pipe | 4 | 10 ^b |
| Aluminum tubing | 10 | 15 |
| Cast-iron pipe | 5 ^a | 15 |
| Copper or copper-alloy pipe | 12 | 10 |
| Copper or copper-alloy tubing (1 $\frac{1}{4}$ inch in diameter and smaller) | 6 | 10 |
| Copper or copper-alloy tubing (1 $\frac{1}{2}$ inch in diameter and larger) | 10 | 10 |
| Cross-linked polyethylene (PEX) pipe, 1 inch diameter and smaller | 2.67 (32 inches) | 10 ^b |
| Cross-linked polyethylene (PEX) pipe, 1 $\frac{1}{4}$ inch diameter and larger | 4 | 10 ^b |
| Cross-linked polyethylene/aluminum/cross-linked polyethylene (PEX-AL-PEX) pipe smaller than 1 inch diameter | 2.67 (32 inches) ^c | 4 ^b |
| Cross-linked polyethylene/aluminum/cross-linked polyethylene (PEX-AL-PEX) pipe 1 inch diameter and larger | 4 ^c | 10 ^b |
| CPVC pipe or tubing (1 inch in diameter and smaller) | 3 | 10 ^b |
| CPVC pipe or tubing (1 $\frac{1}{4}$ inch in diameter and larger) | 4 | 10 ^b |
| Lead pipe | Continuous | 4 |

| | | |
|--|-------------------------------|-----------------|
| Polyethylene of raised temperature (PE-RT) pipe, 1 inch diameter and smaller | 2.67 (32 inches) | 10 ^b |
| Polyethylene of raised temperature (PE-RT) pipe, 1 ^{1/4} inch diameter and larger | 4 | 10 ^b |
| Polypropylene (PP) pipe or tubing (1 inch diameter and smaller) | 2.67 (32 inches) ^c | 10 ^b |
| Polypropylene (PP) pipe or tubing (1 ^{1/4} inch diameter and larger) | 4 ^c | 10 ^b |
| PVC pipe | 4 | 10 ^b |
| Stainless steel drainage systems | 10 | 10 ^b |
| Steel pipe | 12 | 15 |

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

- a. The maximum horizontal spacing of cast-iron pipe hangers *shall* be increased to 10 feet where 10-foot lengths of pipe are installed.
- b. For sizes 2 inches and smaller, a guide shall be installed midway between required vertical supports. Such guides *shall* prevent pipe movement in a direction perpendicular to the axis of the pipe.
- c. The maximum horizontal or vertical spacing of PP, PP-RCT or PEX-AL-PEX pipe hangers *shall* be increased to manufacturer's installation requirements based on maximum operating temperature design and incorporation of pipe or tube supports per manufacturer's requirements.

CHAPTER 28 – WATER HEATERS

(Amd) **P2804.6.1 Requirements for discharge pipe.** Amend item 10. as follows:

10. Terminate not more than 6 inches (152 mm) and not less than two times the discharge pipe diameter above the floor or waste receptor *flood level rim* and cut at a 45-degree angle.

CHAPTER 29 – WATER SUPPLY AND DISTRIBUTION

(Add) **P2902.5.3.1 Automatic lawn sprinkler system sensor device.** Pursuant to section 29-265b of the Connecticut General Statutes, an automatic lawn sprinkler system shall be equipped with a rain sensor or switch that will automatically override the irrigation cycle when adequate rainfall has occurred.

CHAPTER 30 – SANITARY DRAINAGE

(Del) **Section P3009.1 through P3009.11.** Delete sections, subsections and tables and replace with the following:

(Add) **P3009.1 General.** Subsurface landscape irrigation systems shall comply with the Public Health Code adopted pursuant to section 19a-36 of the Connecticut General Statutes.

CHAPTER 31 – VENTS

(Amd) **P3103.1.1 Roof extension.** Open *vent pipes* that extend through a *roof* that do not meet the conditions of Section P3103.1.2 or P3103.1.3 shall terminate not less than 12 inches (305 mm) above the roof.

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

(Del) **CHAPTER 34 – GENERAL REQUIREMENTS.**
Delete chapter in its entirety and replace with the following:

CHAPTER 34 – ELECTRICAL

(Amd) **3401.1 General.** The design and installation of electrical systems, equipment and components indoors and outdoors that are within the scope of this code, including services, power distribution systems, fixtures, appliances, devices and appurtenances shall comply with the NFPA 70, *National Electrical Code* portion of the Connecticut State Building Code. Chapters 34 through 43 are deleted in their entirety and included for reference only.

(Del) **CHAPTER 35 – ELECTRICAL DEFINITIONS.** Delete chapter in its entirety.

(Del) **CHAPTER 36 – SERVICES.** Delete chapter in its entirety.

(Del) **CHAPTER 37 – BRANCH CIRCUIT AND FEEDER REQUIREMENTS.** Delete chapter in its entirety.

(Del) **CHAPTER 38 – WIRING METHODS.** Delete chapter in its entirety.

(Del) **CHAPTER 39 – POWER AND LIGHTING DISTRIBUTION.** Delete chapter in its entirety.

(Del) **CHAPTER 40 – DEVICES AND LUMINAIRES.** Delete chapter in its entirety.

(Del) **CHAPTER 41 – APPLIANCE INSTALLATION.** Delete chapter in its entirety.

(Del) **CHAPTER 42 – SWIMMING POOLS.** Delete chapter in its entirety.

(Del) **CHAPTER 43 – REMOTE-CONTROL, SIGNALING AND POWER-LIMITED CIRCUITS.**
Delete chapter in its entirety.

CHAPTER 44 – REFERENCED STANDARDS

(Amd) **ASME** American Society of Mechanical Engineers
Two Park Avenue
New York, NY 10016

| Standard reference number—year of publication | Title | Referenced in code section number |
|---|---|-----------------------------------|
| (Add) A17.1-2013 | Safety Code for Elevators and Escalators | R323.1 |
| (Amd) A18.1-2008 | Safety Standard for Platform and Stairway Lifts | R323.2 |

(Amd)
NFPA

National Fire Protection Association
1 Batterymarch Park
Quincy, MA 02269

| Standard reference number— year of publication | Title | Referenced in code section number |
|---|----------------------------|--------------------------------------|
| (Add) 02-23 | Hydrogen Technologies Code | R101.4.1 |
| (Add) 54-24 | National Fuel Gas Code | R101.4.1 |

(Amd)
UL LLC
333 Pfingsten Road
Northbrook, IL 60062

(Amd) **UL/CSA 60335-2-40—2019**
Standard for Household and Similar Electrical Appliances, Part 2: Requirements for Motor-Compressors
M1402.1, M1403.1, M1404.1, M1411.2, M1412.1, M1413.1, M2006.1

APPENDIX BA – MANUFACTURED HOUSING USED AS DWELLINGS

(Amd) **BA101.1 General.** The provisions of Appendix BA *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 necessary to provide for the installation of a *manufactured home* unit.
2. Construction, installation, *addition*, *alteration*, *repair* or maintenance of the *building service equipment* 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 Connecticut 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.

(Amd) **BA120.1 General.** The provisions of Sections BA121 through BA126 are applicable only upon request of the building *permit* applicant with the approval of the local *building official*.

(Amd) APPENDIX BE – PASSIVE RADON GAS CONTROLS

(Amd) **BE101.1 General.** This appendix contains radon-resistant construction techniques for new construction.

(Del) **FIGURE BE101.1 EPA MAP OF RADON ZONES.** Delete figure.

(Del) **TABLE BE101.1 HIGH RADON-POTENTAIL (ZONE 1) Counties.** Delete table.

(Add) **BE101.2 Radon mitigation preparation construction technique.** All newly constructed detached *one- and two-family dwellings* and *townhouses* *shall* be provided with radon mitigation preparation construction in accordance with Section BE105 of this code.

Exceptions:

1. Radon-resistant construction technique complying with Section BE103 of this code.
2. Radon mitigation preparation construction *shall* not be required in existing *buildings* undergoing *repair, addition or alteration*. In the case of an *addition* to an existing *building*, this exception also applies to the new construction.

(Add) **BE102 DEFINITIONS.** Add or amend the following definitions.

(Add) **VENT PIPE.** Not less than a 3-inch (76 mm) diameter ABS or PVC gastight pipe extending from the gas permeable layer through the roof.

(Amd) SECTION BE103 PASSIVE RADON-RESISTANT SYSTEM REQUIREMENTS

(Amd) **BE103.5.3 "T" fitting and vent pipe.** A 3- or 4-inch (76 mm or 102 mm) "T" fitting *shall* be inserted beneath the soil-gas-retarder and be connected to a *vent pipe*. The *vent pipe* *shall* extend through the *conditioned space* of the *dwelling* and terminate not less than 12 inches (305 mm) above the roof in a location not less than 10 feet (3048 mm) away from any window or other opening into the *conditioned spaces* of the *building* that is less than 2 feet (610 mm) below the exhaust point. The *vent pipe* *shall* be the same *diameter* throughout its length and *shall* be supported in accordance with Section P2605.

(Amd) **BE103.6.1 "T" fitting and vent pipe.** Before a slab is cast or other floor system is installed, a "T" fitting *shall* be inserted below the slab or other floor system and the soil-gas-retarder. The "T" fitting *shall* be connected to a *vent pipe*. The *vent pipe* *shall* extend through the *conditioned space* of the *dwelling* and terminate not less than 12 inches (305 mm) above the roof in a location not less than 10 feet (3048 mm) away from any window or other opening into the *conditioned spaces* of the *building* that is less than 2 feet (610 mm) below the exhaust point. The *vent pipe* *shall* be the same *diameter* throughout its length and *shall* be supported in accordance with Section P2605.

(Amd) **BE103.6.2 Multiple vent pipes.** In *dwellings* where interior footings or other barriers separate the gas-permeable layer, each area *shall* be fitted with an individual *vent pipe*. *Vent pipes* *shall* connect to a single vent that terminates not less than 12 inches (305 mm) above the roof or each individual *vent pipe* *shall* terminate separately not less than 12 inches (305 mm) above the roof. The *vent pipe* *shall* be the same *diameter* throughout its length and *shall* be supported in accordance with Section P2605.

(Amd) **BE103.12 Power source and access for future radon fan.** To provide for future installation of a radon fan, an electrical circuit terminated in an *approved* box *shall* be installed during construction in the anticipated location of the radon fan. An accessible clear space 22 inches (559 mm) in *diameter* by 3 feet (914 mm) in height adjacent to the *vent pipe* *shall* be provided at the anticipated location of a future radon fan.

(Add) SECTION BE105 RADON MITIGATION PREPARATION

(Add) **BE105.1 Soil-gas-retarder.** A continuous membrane of 6-mil (0.15 mm) polyethylene or other *approved* equivalent material used to retard the flow of soil gases into a *dwelling* *shall* be installed under the floor slab in accordance with Section R506.3.3.

(Add) **BE105.2 “T” fitting and *vent pipe*.** Before a slab is cast or other floor system is installed, a 3-inch (76 mm) “T” fitting *shall* be inserted beneath the soil-gas-retarder. The “T” fitting *shall* be surrounded by aggregate consisting of material that will pass through a 2-inch (51 mm) sieve and be retained by a $\frac{1}{4}$ -inch (6.4 mm) sieve not less than an 8-inch (203 mm) deep by 24-inch (610 mm) *diameter* hole. The aggregate *shall* be wrapped in filter fabric or equivalent material. The “T” fitting *shall* be connected to a 3-inch-*diameter* (76 mm) ABS or PVC *vent pipe* extending from the *basement* through the *conditioned space* of the *dwelling* and terminate and be capped not less than 12 inches (305 mm) above the roof in a location not less than 10 feet (3048 mm) away from any window or other opening into the *conditioned spaces* of the *building* that is less than 2 feet (610 mm) below the exhaust point. The *vent pipe* *shall* be the same *diameter* throughout its length and *shall* be supported in accordance with Section P2605. The *vent pipe* *shall* be labeled at the bottom and in the *attic* and *shall* specifically state: “Reserved for a Potential Radon Reduction Mechanical System.”

(Add) **BE105.2.1 Combination foundations.** Where *basement* or crawl space floors are on different levels, each level *shall* have a separate *vent pipe*. Multiple *vent pipes* *shall* be permitted to be connected to a single *vent pipe* that terminates above the roof.

(Add) **BE105.2.2 Drain tile and sump used for depressurization.** As an alternative to inserting a *vent pipe* into a “T” fitting, a *vent pipe* *shall* be permitted to be inserted directly into an interior perimeter drain tile loop or through a sump cover.

(Add) **BE105.3 Floor openings.** Openings around bathtubs, showers, water closets, pipes, wires or other objects that penetrate *concrete* slabs, or other floor assemblies, *shall* be filled with a polyurethane caulk or expanding foam applied in accordance with the manufacturer’s instructions. In addition, slab joints inclusive of cracks, penetrations, expansion joints and the slab to foundation connections, *shall* be filled with polyurethane caulk.

(Add) **BE105.4 Sumps.** Sumps open to soil or serving as the termination point for subslab or exterior drain tile loops *shall* be covered with a gasketed or sealed lid. Sumps used as the suction point in a subslab depressurization system *shall* have a lid designed to accommodate the *vent pipe*. Sumps used as a floor drain *shall* have a lid equipped with a trapped inlet.

(Add) **BE105.5 Waterproofing and dampproofing.** The *exterior surfaces* of foundation walls below grade *shall* be waterproofed or dampproofed in accordance with Section R406.

(Add) **BE105.6 Power source for future radon fan.** To provide for future installation of a potential radon fan Section BE105.6.1 or BE105.6.2 *shall* be met.

(Add) **BE105.6.1 Conduit for future radon fan.** A $\frac{3}{4}$ -inch (19 mm) electrical compliant conduit from the *basement* or room or space where the electrical panel is located to the *attic* *shall* be installed during construction. This conduit is intended to accommodate and dedicated for electrical wiring should a radon mitigation fan be installed. The conduit *shall* be capped in both the *basement* and in the *attic*. The conduit *shall* be labeled at the top and bottom and specifically state: “Reserved for a Potential Radon Reduction Mechanical System.”

(Add) **BE105.6.2 Circuit for future radon fan.** To provide for future installation of a radon fan, an electrical circuit terminated in an *approved* box *shall* be installed during construction in the anticipated location of the radon fans.

(Add) **BE105.7 Accessible clear space.** An accessible clear space 22 inches (559 mm) in *diameter* by 3 feet (914 mm) in height adjacent to the *vent pipe* *shall* be provided in the *attic* or at an acceptable location for a potential radon fan.

(Add) APPENDIX BP – WIND SPEEDS AND GROUND SNOW LOADS

| Municipality | Ultimate Design Wind Speed, V_{ult} (mph) | Basic Wind Speed, V_{asd} (mph) | Allowable Stress Design Ground Snow Load, $p_{g(asd)}$ (psf) | Hurricane-Prone Region |
|---------------|---|-----------------------------------|--|------------------------|
| Andover | 120 | 93 | 35 | Yes |
| Ansonia | 120 | 93 | 35 | Yes |
| Ashford | 120 | 93 | 40 | Yes |
| Avon | 115 | 89 | 40 | - |
| Barkhamsted | 115 | 89 | 60 | - |
| Beacon Falls | 120 | 93 | 40 | Yes |
| Berlin | 120 | 93 | 35 | Yes |
| Bethany | 120 | 93 | 40 | Yes |
| Bethel | 115 | 89 | 40 | - |
| Bethlehem | 115 | 89 | 50 | - |
| Bloomfield | 115 | 89 | 35 | - |
| Bolton | 120 | 93 | 35 | Yes |
| Bozrah | 120 | 93 | 35 | Yes |
| Branford | 120 | 93 | 35 | Yes |
| Bridgeport | 120 | 93 | 30 | Yes |
| Bridgewater | 115 | 89 | 45 | - |
| Bristol | 115 | 89 | 45 | - |
| Brookfield | 115 | 89 | 45 | - |
| Brooklyn | 120 | 93 | 40 | Yes |
| Burlington | 115 | 89 | 50 | - |
| Canaan | 115 | 89 | 55 | - |
| Canterbury | 120 | 93 | 35 | Yes |
| Canton | 115 | 89 | 45 | - |
| Chaplin | 120 | 93 | 40 | Yes |
| Cheshire | 120 | 93 | 40 | Yes |
| Chester | 120 | 93 | 40 | Yes |
| Clinton | 125 | 97 | 35 | Yes |
| Colchester | 120 | 93 | 35 | Yes |
| Colebrook | 115 | 89 | 70 | - |
| Columbia | 120 | 93 | 35 | Yes |
| Cornwall | 115 | 89 | 55 | - |
| Coventry | 120 | 93 | 35 | Yes |
| Cromwell | 120 | 93 | 35 | Yes |
| Danbury | 115 | 89 | 45 | - |
| Darien | 120 | 93 | 35 | Yes |
| Deep River | 125 | 97 | 35 | Yes |
| Derby | 120 | 93 | 35 | Yes |
| Durham | 120 | 93 | 35 | Yes |
| East Granby | 115 | 89 | 40 | - |
| East Haddam | 120 | 93 | 40 | Yes |
| East Hampton | 120 | 93 | 35 | Yes |
| East Hartford | 120 | 93 | 35 | Yes |
| East Haven | 120 | 93 | 35 | Yes |
| East Lyme | 125 | 97 | 35 | Yes |

| Municipality | Ultimate Design Wind Speed, V_{ult} (mph) | Basic Wind Speed, V_{asd} (mph) | Allowable Stress Design Ground Snow Load, $p_{g(asd)}$ (psf) | Hurricane-Prone Region |
|--------------|---|-----------------------------------|--|------------------------|
| East Windsor | 115 | 89 | 35 | - |
| Eastford | 120 | 93 | 40 | Yes |
| Easton | 120 | 93 | 40 | Yes |
| Ellington | 115 | 89 | 35 | - |
| Enfield | 115 | 89 | 35 | - |
| Essex | 125 | 97 | 35 | Yes |
| Fairfield | 120 | 93 | 30 | Yes |
| Farmington | 115 | 89 | 40 | - |
| Franklin | 120 | 93 | 35 | Yes |
| Glastonbury | 120 | 93 | 35 | Yes |
| Goshen | 115 | 89 | 65 | - |
| Granby | 115 | 89 | 40 | - |
| Greenwich | 120 | 93 | 35 | Yes |
| Griswold | 120 | 93 | 35 | Yes |
| Groton | 125 | 97 | 30 | Yes |
| Guilford | 125 | 97 | 35 | Yes |
| Haddam | 120 | 93 | 40 | Yes |
| Hamden | 120 | 93 | 35 | Yes |
| Hampton | 120 | 93 | 40 | Yes |
| Hartford | 120 | 93 | 35 | Yes |
| Hartland | 115 | 89 | 60 | - |
| Harwinton | 115 | 89 | 55 | - |
| Hebron | 120 | 93 | 35 | Yes |
| Kent | 115 | 89 | 50 | - |
| Killingly | 120 | 93 | 45 | Yes |
| Killingworth | 125 | 97 | 35 | Yes |
| Lebanon | 120 | 93 | 35 | Yes |
| Ledyard | 125 | 97 | 35 | Yes |
| Lisbon | 120 | 93 | 35 | Yes |
| Litchfield | 115 | 89 | 55 | - |
| Lyme | 125 | 97 | 35 | Yes |
| Madison | 125 | 97 | 35 | Yes |
| Manchester | 120 | 93 | 35 | Yes |
| Mansfield | 120 | 93 | 40 | Yes |
| Marlborough | 120 | 93 | 35 | Yes |
| Meriden | 120 | 93 | 35 | Yes |
| Middlebury | 115 | 89 | 45 | - |
| Middlefield | 120 | 93 | 35 | Yes |
| Middletown | 120 | 93 | 35 | Yes |
| Milford | 120 | 93 | 35 | Yes |
| Monroe | 120 | 93 | 40 | Yes |
| Montville | 125 | 97 | 35 | Yes |
| Morris | 115 | 89 | 55 | - |
| Naugatuck | 120 | 93 | 40 | Yes |
| New Britain | 120 | 93 | 40 | Yes |
| New Canaan | 120 | 93 | 35 | Yes |

| Municipality | Ultimate Design Wind Speed, V_{ult} (mph) | Basic Wind Speed, V_{asd} (mph) | Allowable Stress Design Ground Snow Load, $p_{g(asd)}$ (psf) | Hurricane-Prone Region |
|------------------|---|-----------------------------------|--|------------------------|
| New Fairfield | 115 | 89 | 45 | - |
| New Hartford | 115 | 89 | 55 | - |
| New Haven | 120 | 93 | 35 | Yes |
| New London | 125 | 97 | 30 | Yes |
| New Milford | 115 | 89 | 45 | - |
| Newington | 120 | 93 | 35 | Yes |
| Newtown | 120 | 93 | 40 | Yes |
| Norfolk | 115 | 89 | 75 | - |
| North Branford | 120 | 93 | 35 | Yes |
| North Canaan | 115 | 89 | 55 | - |
| North Haven | 120 | 93 | 35 | Yes |
| North Stonington | 125 | 97 | 35 | Yes |
| Norwalk | 120 | 93 | 35 | Yes |
| Norwich | 125 | 97 | 35 | Yes |
| Old Lyme | 125 | 97 | 35 | Yes |
| Old Saybrook | 125 | 97 | 35 | Yes |
| Orange | 120 | 93 | 35 | Yes |
| Oxford | 120 | 93 | 40 | Yes |
| Plainfield | 120 | 93 | 35 | Yes |
| Plainville | 120 | 93 | 40 | Yes |
| Plymouth | 115 | 89 | 45 | - |
| Pomfret | 120 | 93 | 45 | Yes |
| Portland | 120 | 93 | 35 | Yes |
| Preston | 125 | 97 | 35 | Yes |
| Prospect | 120 | 93 | 45 | Yes |
| Putnam | 120 | 93 | 45 | Yes |
| Redding | 120 | 93 | 40 | Yes |
| Ridgefield | 115 | 89 | 45 | - |
| Rocky Hill | 120 | 93 | 35 | Yes |
| Roxbury | 115 | 89 | 40 | - |
| Salem | 120 | 93 | 35 | Yes |
| Salisbury | 115 | 89 | 55 | - |
| Scotland | 120 | 93 | 35 | Yes |
| Seymour | 120 | 93 | 40 | Yes |
| Sharon | 115 | 89 | 50 | - |
| Shelton | 120 | 93 | 35 | Yes |
| Sherman | 115 | 89 | 50 | - |
| Simsbury | 115 | 89 | 40 | - |
| Somers | 115 | 89 | 35 | - |
| South Windsor | 120 | 93 | 35 | Yes |
| Southbury | 120 | 93 | 40 | Yes |
| Southington | 120 | 93 | 40 | Yes |
| Sprague | 120 | 93 | 35 | Yes |
| Stafford | 115 | 89 | 40 | - |
| Stamford | 120 | 93 | 35 | Yes |
| Sterling | 120 | 93 | 40 | Yes |

| Municipality | Ultimate Design Wind Speed, V_{ult} (mph) | Basic Wind Speed, V_{asd} (mph) | Allowable Stress Design Ground Snow Load, $p_{g(asd)}$ (psf) | Hurricane-Prone Region |
|---------------|---|-----------------------------------|--|------------------------|
| Stonington | 125 | 97 | 30 | Yes |
| Stratford | 120 | 93 | 30 | Yes |
| Suffield | 115 | 89 | 35 | - |
| Thomaston | 115 | 89 | 45 | - |
| Thompson | 120 | 93 | 45 | Yes |
| Tolland | 120 | 93 | 40 | Yes |
| Torrington | 115 | 89 | 55 | - |
| Trumbull | 120 | 93 | 35 | Yes |
| Union | 115 | 89 | 50 | - |
| Vernon | 120 | 93 | 35 | Yes |
| Voluntown | 125 | 97 | 35 | Yes |
| Wallingford | 120 | 93 | 35 | Yes |
| Warren | 115 | 89 | 55 | - |
| Washington | 115 | 89 | 45 | - |
| Waterbury | 120 | 93 | 40 | Yes |
| Waterford | 125 | 97 | 30 | Yes |
| Watertown | 115 | 89 | 45 | - |
| West Hartford | 120 | 93 | 35 | Yes |
| West Haven | 120 | 93 | 35 | Yes |
| Westbrook | 125 | 97 | 35 | Yes |
| Weston | 120 | 93 | 35 | Yes |
| Westport | 120 | 93 | 35 | Yes |
| Wethersfield | 120 | 93 | 35 | Yes |
| Willington | 120 | 93 | 40 | Yes |
| Wilton | 120 | 93 | 40 | Yes |
| Winchester | 115 | 89 | 70 | - |
| Windham | 120 | 93 | 35 | Yes |
| Windsor | 115 | 89 | 35 | - |
| Windsor Locks | 115 | 89 | 35 | - |
| Wolcott | 120 | 93 | 45 | Yes |
| Woodbridge | 120 | 93 | 40 | Yes |
| Woodbury | 115 | 89 | 40 | - |
| Woodstock | 120 | 93 | 45 | Yes |

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