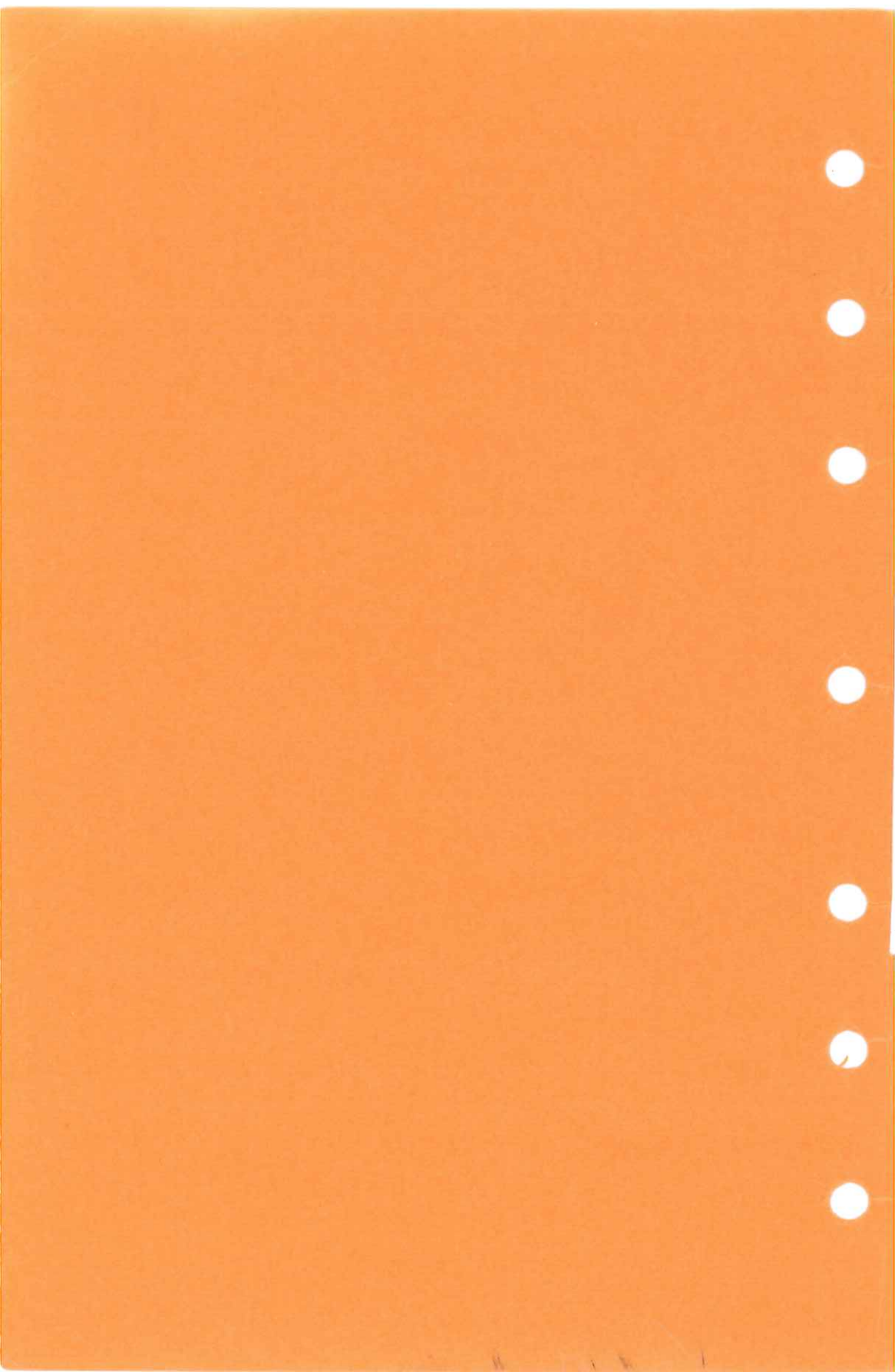


**STATE BUILDING CODE**



**CONNECTICUT SUPPLEMENT**

JUNE 15, 1994



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### Connecticut State Building Code

#### Sec. 29-252-1.

Repealed, October 16, 1989.

#### Sec. 29-252-1a

Repealed, June 15, 1994.

#### Sec. 29-252-1b. Connecticut state building code—Connecticut supplement

The BOCA National Building Code/1990, the BOCA National Mechanical Code/1990, the BOCA National Plumbing Code/1990, and the BOCA National Building, Plumbing and Mechanical portions of the 1992 Accumulative Supplement of the Building Officials and Code Administrators International, Inc.; the National Electrical Code NFPA 70-1993 of the National Fire Protection Association; and the CABO One and Two Family Dwelling Code/1989, of the Council of American Building Officials, except as amended, altered or deleted and by the addition of certain provisions as indicated in this Connecticut Supplement, are hereby adopted by reference as the Connecticut State Building Code. Copies of the BOCA Codes and CABO Code are available from Building Officials and Code Administrators International, Inc., 4051 West Flossmoor Road, Country Club Hills, IL 60477-5795. Copies of the National Electrical Code are available from the National Fire Protection Association, Batterymarch Park, Quincy, MA 02269. Copies of the Connecticut State Building Code "Connecticut Supplement" are available from the Department of Public Safety, Division of Fire, Emergency and Building Services, P.O. Box 2794, Middletown, CT 06457-9294.

### CONNECTICUT SUPPLEMENT

#### ARTICLE ONE

#### Administration and Enforcement

##### (Amd) 100.1 Title.

Section 29-252-1b of these regulations together with the BOCA National Building Code, BOCA National Mechanical and Plumbing Codes, the Building and Plumbing and Mechanical portions of the BOCA 1992 Accumulative Supplement, the National Electrical Code and the CABO One & Two Family Dwelling Code, shall be known as the Connecticut State Building Code, hereinafter referred to as "the code."

##### (Add) 101.1.1 Statutes.

In accordance with Chapter 541, Part Ia, Connecticut General Statutes (C.G.S.), this code shall be the building code for all towns, cities and boroughs and for all state agencies.

##### (Amd) 103.4 Rehabilitation.

Buildings existing prior to the current adoption date of the State Building Code, in which there is work involving repairs, alterations, additions or changes of use, shall be made to conform to the code by applying the requirements of Article 32 or the provisions of Articles 2 through 31, except as may be provided under Sections 512.0, 513.0, 3000.0 and 3100.0.

**(Add) 105.4 Demolition of Structures.**

The demolition of structures shall be in accordance with regulations adopted pursuant to Chapter 541, Parts Ia and IV, C.G.S., and Section 3006.3 of this code.

**(Amd) 107.2 Modification.**

The State Building Inspector may grant variations or exemptions from, or approve equivalent or alternate compliance with the code where strict compliance with the code would entail practical difficulty or unnecessary hardship, or is otherwise adjudged unwarranted, provided that the intent of the code 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 State Codes and Standards Committee within fourteen days after mailing of the decision in accordance with Chapter 541, Part Ia, C.G.S.

**(Amd) 107.2.1 Records.**

The application for modification, variation or exemption and the decision of the State Building Inspector shall be in writing and shall be officially recorded with the application for the permit in the permanent records of the local code official.

**(Add) 107.2.2 Accessibility Exemption.**

Any variation of, or exemption from, or modification to, 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 under this section and the Director of the Office of Protection and Advocacy For Persons With Disabilities, acting jointly, pursuant to Chapter 541, Part Ia, C.G.S. Any person aggrieved by the joint decision of the State Building Inspector and the Office of Protection and Advocacy may appeal to the State Codes and Standards Committee within thirty days after such decision has been rendered in accordance with Chapter 541, Part Ia, C.G.S.

**(Add) 108.1.1 Engineering Consultant Required for Buildings Exceeding Threshold Limits.**

For the purposes of this section, "threshold limit" as it relates to a structure, means any building (1) having four stories, (2) sixty feet in height, (3) with a clear span of one hundred fifty feet in width, (4) containing one hundred fifty thousand square feet of total gross floor area, or (5) with an occupancy of one thousand persons.

The following use groups shall have the following additional threshold limits:

	<u>Use Group</u>	<u>Threshold Limit</u>
I	Institutional	150 beds or persons
R-1	Residential—hotels/motels	Single structure with 200 rooms
R-2	Residential—multifamily	Single structure with 100 dwelling units
S	Storage	250,000 square feet or Parking Structures with 1,000 cars

If a proposed structure or addition will exceed the threshold limit as defined or as provided for herein, the owner of the proposed structure or addition shall inform the code official of the municipality in which the building shall be located, or the State Building Inspector pursuant to Chapter 541, Part Ia, C.G.S., not less than ninety (90) days prior to the submission of any application for permit, and said code official shall require that an independent structural engineering consultant review the structural construction documents of the structure or addition to be constructed to determine compliance with the requirements of the code, pursuant to Chapter 541, Part Ia, C.G.S.

**(Add) 108.1.1.1 Lift Slab Construction.**

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 Sections 108.1.1 and 108.1.2.

**(Add) 108.1.2 Special Professional Services.**

The construction documents submitted for any structure or addition which exceeds the threshold limits defined in Section 108.1.1 shall be sealed by a registered design professional, and such registered design professional of record shall be retained and be responsible for the review of the implementation of the design of such structure or addition, including the review of shop drawings. In the event such registered design professional is unable to fulfill said review responsibilities, an additional registered design professional 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 design professional responsible for the design of such members or assemblies shall review the fabrication process to ensure conformance with design specifications and parameters.

**(Amd) 108.2.2 Fees.**

All fees and costs related to the performance of special and technical services, in addition to the permit fee, shall be borne by the Owner.

**(Amd) 109.2 Municipal Code Official.**

Each town, city or borough shall appoint an officer to administer this code, and this officer shall be known as the "building official" in accordance with Chapter 541, Part Ia, C.G.S., and referred to as the code official herein. The building official shall not be dismissed except in accordance with the provisions of Chapter 541, Part Ia, C.G.S.

**(Add) 109.2.1 Qualification of Appointees.**

All persons appointed as building officials and their technical assistants shall be licensed in accordance with the regulations adopted pursuant to Chapter 541, Part Ia, C.G.S.

**(Amd) 109.6 Relief from Personal Liability.**

The relief from personal liability and indemnification of building officials and their subordinates shall be in accordance with Chapter 541, Part Ia, C.G.S., or other relevant general statutes concerning municipal officers or employees.

**(Add) 110.1.1 Required Compliance.**

The code official shall require compliance with all laws relating to the construction, alteration, repair, demolition and integral equipment; and the loca-

tion, use, accessibility, occupancy and maintenance of structures, except as may be otherwise provided for. The code official shall have right of entry upon any premises excepting occupied portions of single family residences, as provided in Section 115.4, for the proper performance of his duties, in accordance with Chapter 541, Part Ia, C.G.S.

**(Add) 110.3.1 Licensure Requirements.**

The code official may issue a written cease and desist order when it is found that any person at the site is performing work limited by the occupational licensing laws of Chapters 393 and 393a, C.G.S. without proper licensure or apprenticeship permit. Documentation showing satisfactory proof of compliance shall be furnished on demand.

**(Amd) 110.6 Rule Making Authority.**

The code official may not modify or vary this code or any referenced codes or standards. The State Building Inspector and the Codes and Standards Committee, with the approval of the Commissioner of Public Safety, may adopt further rules and regulations to interpret and implement the provisions of this code and to secure the intent thereof.

**(Add) 111.1.1 State Agency Exemption.**

State agencies shall be exempt from local municipal building permit requirements but shall be required to obtain a building permit for state-owned buildings and structures from the State Building Inspector in accordance with Chapter 541, Part Ia, C.G.S.

Exception: State agencies are required to obtain a demolition permit from the local code official in accordance with Chapter 541, Part IV, C.G.S.

**(Add) 111.1.2 Plumbing Permit Exceptions.**

A permit is not required for repairs which involve only the working parts of a faucet or valve, clearance of stoppages, or repairing or replacement of defective faucets or valves, providing alterations are not made in the existing piping or fixtures.

**(Add) 111.1.3 Mechanical Permit Exceptions.**

Permits shall not be required for the following:

1. Any portable heating appliance
2. Any portable ventilation equipment
3. Any portable cooling equipment
4. Any steam, hot or chilled water piping within any heating or cooling equipment regulated by this code
5. Replacement of any minor part which does not alter approval of equipment or make it unsafe
6. Any portable evaporative cooler
7. Any self-contained refrigeration system containing 10 lbs (4.53kg) or less of refrigerant, or actuated by motors of 1 horsepower (0.75kw) or less.

**(Add) 111.1.4 Permit Exemptions.**

Permits are not required for temporary structures as provided by Section 624.1.1, or for Use Group U structures less than 100 square feet (10.8m<sup>2</sup>) nor more than 10 feet (3048mm) in height, not requiring a permanent foundation as provided by Section 1205.1.

(Amd) **111.6.1 Private Sewage Disposal System.**

The site plan shall indicate the location of a private sewage disposal system when a public sewer is not available. All technical and soil data required by the Public Health Code listed in the Appendix of Related Regulations shall be submitted with the site plan.

(Add) **111.10 Approval of Construction Documents by the State Building Inspector.**

The State Building Inspector may, upon application by a builder setting forth that a set of construction documents will be utilized in more than one municipality to acquire building permits, review and approve any set of construction documents for the construction or erection of any building or structure designed to provide dwelling space for not more than two families if such set of construction documents meets the requirements of this code. Any code official, in accordance with other requirements of Sections 111.0, 112.0 and applicable local ordinances, shall issue a building permit upon application by a builder and presentation to him of such a set of construction documents bearing the approval of the State Building Inspector in accordance with Chapter 541, Part Ia, C.G.S.

(Amd) **112.1 Action on Application.**

The code official shall examine or cause to be examined all applications for permits and amendments thereto and a permit shall be issued or refused, stating the reasons therefore, in whole or in part, within thirty days after the date of an application. If the application or the construction documents do not conform to the requirements of all pertinent laws, the code official shall reject such application in writing, stating the reasons therefore.

(Add) **112.1.1 Construction Document Review.**

Prior to the issuance of a permit, the code official shall review the construction documents of the buildings or structures to be constructed or altered to determine their substantial compliance with the requirements of the code in effect at the time of receipt of application. In order to meet the thirty day statutory requirement set forth in Section 112.1, construction documents shall be submitted by the applicant to both the building official and the local fire marshal concurrently where applicable.

(Add) **112.10 Return of Construction Documents.**

The code official shall return construction documents on file at the time of the request for the issuance of a certificate of occupancy for any single-family dwelling or out-building to the owner of such dwelling or building no earlier than two years after the issuance of the certificate of occupancy in accordance with Chapter 541, Part Ia, C.G.S. Unless written request for return of said construction documents has been made at the time of certificate of occupancy issuance, the documents may be legally disposed of in accordance with Chapter 97, C.G.S.

(Amd) **114.3.1 Fee Schedule.**

Each municipality shall establish a schedule of fees for each construction document review, building permit, and certificate of occupancy. Construction document examination and building permit fees may be a percentage of the construction cost. A schedule of adopted fees shall be posted for public view.



**(Add) 115.2.3 Posting for Required Inspections.**

A schedule of required inspections shall be compiled by the code official. The schedule shall be posted in the building department for public review.

**(Amd) 115.4 Right of Entry.**

The code official or his assistants shall have the right of entry to such buildings or structures as may be within his jurisdiction, 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, in accordance with Chapter 541, Part Ia, C.G.S., or under such conditions as described in Chapter 541, Part III, C.G.S.

**(Amd) 117.4 Violation Penalties.**

Any person who violates any provisions of this code shall be fined not less than two hundred nor more than one thousand dollars, or imprisoned not more than six months or both, pursuant to Chapter 541, Part Ia, C.G.S.

**(Amd) 118.2 Unlawful Continuance.**

Any person who shall continue any work in or about the structure after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe conditions, shall be liable to penalties in accordance with Section 117.4.

**(Add) 119.1.1 Exemptions.**

State agencies shall be exempt from the certificate of occupancy requirement by the local code official, but shall be required to obtain a certificate of occupancy from the State Building Inspector pursuant to the requirements of Chapter 541, Part Ia, C.G.S.

**(Amd) 119.3 Use and Occupancy.**

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 code official, certifying that such building or structure substantially complies with the provisions of the State Building Code and the regulations lawfully adopted thereunder. Nothing in the code or in this part shall require the removal, alteration or abandonment of, or prevent the continuance of the use and occupancy of, any single-family dwelling 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.

**(Add) 119.5.1 Partial Occupancy.**

A partial certificate of occupancy may be issued by the code official for a portion of the building or structure when, in his sole opinion, adequate egress facilities, accessibility features, and health and safety requirements are in compliance as required herein.

**(Add) 119.6.1 Substantial Compliance Certification.**

Prior to the issuance of a certificate of occupancy for a proposed structure or addition which meets or exceeds the limits specified herein, the code

official shall require a statement signed by the registered design professional and by the general contractor involved in the construction of such structure or addition affirming their professional opinion that the completed structure or addition is in substantial compliance with approved construction documents on file with such code official. The use groups referred to in this subsection shall include:

(1) A, E, I, H Use Groups; R-1 Use Group hotels, motels; R-2 Use Group rooming or boarding houses and dormitories, without limitation as to size or number of stories;

(2) B, F, M, S Use Groups having three stories or more, or exceeding 30,000 square feet (2787m<sup>2</sup>) total gross area; and

(3) R-2 and R-3 residential dwellings having more than 16 units, or more than 24,000 square feet (2230m<sup>2</sup>) total gross area per building.

**(Add) 120.7 Penalty.**

Any person who, by himself or his agent, fails to comply with the written order of a code official 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 more than five hundred dollars or imprisoned not more than six months in accordance with Chapter 541, Part III, C.G.S.

**(Amd) 122.4 Periodic Inspection of Existing Buildings.**

The code official shall accept reports of required inspections by the local fire marshal and shall enforce all violations from the requirements of the code applicable at the time of issuance of permit for the building or structure reported therein.

**(Add) 123.3 Compensation.**

The third member of the Board of Survey shall receive for services a fee to be paid by the appellant.

**(Amd) 124.1 Appeal from Decision of Code Official.**

When the code 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 and regulations have been misconstrued or wrongly interpreted, or when the code official issues a written order under Section 110.3.1, and the permit, in whole or in part, having been refused by the code official, the owner of such building or structure, whether already erected or to be erected, or his authorized agent may appeal, in writing, from the decision of the code official to the municipal board of appeals. A person, other than such owner, who claims to be aggrieved by any decision of the code official may, by himself or his authorized agent, appeal in writing from the decision of the code official to the municipal board of appeals as provided by Chapter 541, Part Ia, C.G.S.

**(Amd) 124.2 Appointment of Municipal Board of Appeals.**

A municipal board of appeals consisting of five members shall be appointed in accordance with Chapter 541, Part Ia, C.G.S.

**(Amd) 124.2.1 Qualifications.**

Each member, other than one member appointed from the general public, shall have at least five years experience in either building design or construction or supervision of construction.

**(Amd) 124.3 Notice of Meeting.**

Each appeal under this subsection shall be heard in the municipality for which the code official serves within five days, exclusive of Saturdays, Sundays and legal holidays, after the date of receipt of the appeal.

**(Amd) 124.4.1 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) 124.4.2 Appointment of Panel.**

Upon receipt of an appeal from an owner or his representative, or approval of an appeal by a person other than the owner, the chairman of the board of appeals shall appoint a panel of not less than three members of such board to hear such appeal.

**(Add) 124.4.3 Conduct of Hearing.**

Hearings shall be conducted as contested cases in accordance with the provisions of Chapter 54, C.G.S. Although compliance with the strict rules of evidence is not required, care should be taken to receive only relevant information.

**(Del) 124.5 Delete Section.****(Amd) 124.6 Rendering of Decisions.**

The panel shall, upon majority vote of its members, affirm, modify or reverse the decision of the code official in a written decision upon the appeal and file the same with the code 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 the date of such filing, to the party taking such appeal.

**(Amd) 124.6.2 Administration.**

The code official shall take immediate action in accordance with the decision of the panel excepting where further appeal is taken as provided for herein.

**(Amd) 124.7 Appeal to State Codes and Standards Committee.**

Any person aggrieved by the decision of a municipal appeal panel may appeal to the State Codes and Standards Committee within fourteen days after the filing of the decision with the building official in accordance with the provisions of Chapter 541, Part 1a, C.G.S. and the regulations adopted by the State Codes and Standards Committee thereunder. The appeal shall be commenced upon the postmarking of the envelope containing the appeal which is addressed to the State Codes and Standards Committee, c/o the Department of Public Safety. A review granted under the provisions of the subsection shall be de novo.

( Add) **124.8 Court Review.**

Any person aggrieved by any ruling of the State Codes and Standards Committee may appeal to the superior court for the judicial district in which such building or structure is located.

( ARTICLE TWO

Definitions

( Amd) **200.3 Terms Defined in Other Codes.**

Where terms are not defined in this article and are defined in the Plumbing, Mechanical, Electrical, One and Two Family portions of this code, or the Fire Safety Code, or in CABO/ANSI A117.1 as listed in Appendix A, they shall have the meanings ascribed to them therein.

Exception: Terms defined in statutory provisions shall be construed in accordance with the provisions of Chapter 1, C.G.S.

( Amd) **201.0 General Definitions.**

Add or amend the following new definitions as appropriate:

( Add) **Building Official.**

Shall mean the code official as defined herein.

( Add) **Complex.**

Any group of buildings located on a single parcel of land or on contiguous parcels of land, or any building or group of buildings which are subdivided into separate occupancies and planned, financed, constructed or promoted by a common management entity for the purpose of sale or lease either of the entire complex or of subdivisions thereof, not including any single or two-family detached dwellings.

( Add) **Level, Approximate.**

As it applies to an exterior pedestrian or vehicular use pursuant to Section 512.0, a surface with a gradient not more than 1:48.

( Add) **Ramp.**

A pedestrian walking surface that has a gradient greater than five percent (1:20).

( Add) **Residential Board and Care Facilities.**

A building or part thereof used to provide lodging, boarding, and personal care service for four or more residents unrelated by blood or marriage to its owners or operators.

( Add) **Street Floor.**

The floor nearest the level of exit discharge. When applied to the requirements for accessibility pursuant to the provisions of Section 512.0, a single floor shall be designated.

## ARTICLE THREE

## Use Groups Classification

(Amd) Table 301.1.1 Specific Use Areas.

Table 301.1.1

## Specific Use Areas

<u>Room or area<sup>a</sup></u>	<u>Separation/Protection</u>
<u>All Use Groups:</u>	
Paint shops in buildings other than Use Group F employing hazardous materials in quantities less than that which would cause classification as Use Group H	2 hours; or 1 hour and automatic fire suppression system
Waste and soiled linen collection rooms and chute termination rooms	Separation/protection pursuant to NFPA 82 listed in Appendix A
Waste and soiled linen chute access rooms	Separation/protection pursuant to NFPA 82 listed in Appendix A
Boiler and furnace rooms	Automatic fire suppression system
Incinerator rooms	2 hours and automatic fire suppression system
<u>Use Groups A,B,E,I-1,R-1,R-2:</u>	
Storage rooms more than 50 SF (4.65m <sup>2</sup> ) in area but not more than 100 SF (9.3m <sup>2</sup> ) in area	1 hour or automatic fire suppression system with smoke partitions
Storage rooms more than 100 SF (9.3m <sup>2</sup> ) in area	Automatic fire suppression system with smoke partitions
Physical plant maintenance shop and workshop	2 hours; or 1 hour and automatic fire suppression system
<u>Use Groups I-2, I-3:</u>	
Boiler and furnace rooms	1 hour and automatic fire suppression system
Handicraft shops, kitchens and employee locker rooms	Automatic fire suppression system with smoke partitions
Laundries greater than 100 SF (9.3m <sup>2</sup> ) in area	1 hour and automatic fire suppression system
Storage rooms more than 50 SF (4.65m <sup>2</sup> ) in area but not more than 100 SF (9.3m <sup>2</sup> ) in area	Automatic fire suppression system with smoke partitions
Storage rooms more than 100 SF (9.3m <sup>2</sup> ) in area	1 hour and automatic fire suppression system
Physical plant maintenance shop and workshop	1 hour and automatic fire suppression system

<u>Room or area<sup>a</sup></u>	<u>Separation/Protection</u>
<u>Use Group I-2:</u> Gift/retail shops employing hazardous quantities less than that which would cause classification as Use Group H	Automatic fire suppression system with smoke partitions
Laboratories employing hazardous quantities less than that which would cause classification as Use Group H	1 hour and automatic fire suppression systems with smoke partitions
<u>Use Group I-3:</u> Padded cells	1 hour and automatic fire suppression system

Note a. 1 square foot (SF) = 0.093m<sup>2</sup>.

(Amd) **306.7 Table 306.7 Exempt Amounts of Hazardous Materials, Liquids and Chemicals.**

Add the following:

**Material. 23. Radioactive Material (Note g)**

**Maximum Quantity.**

25 REM in Open Source, 100 REM in Closed Source

Note g. Maximum dosage permitted in any single exposure.

ARTICLE FIVE

General Building Limitations

Section 512—Accessibility for Physically Disabled

(Amd) **512.1 Where Required.**

All buildings and structures, including their associated sites and facilities, shall be accessible to persons with physical disabilities including but not limited to occupants, employees, students, spectators, participants and visitors. This section shall not be construed to require accessible facilities in areas not required to be accessible, nor to require facilities not otherwise required by this code or other regulations.

Exceptions:

1. Accessibility is not required in buildings and facilities or portions thereof to the extent permitted by Sections 512.2 through 512.10.

2. Mezzanines having less than 3,000 square feet of gross floor area, either singly or in the aggregate for multiple mezzanines on any floor, providing that the goods and services available on any mezzanine are also available in accessible areas.

3. Buildings of Use Group R-4 and accessory structures and their associated site facilities are not required to be accessible.

4. Structures of Use Group U are exempt from all requirements of this section other than the following:

a. In Group U agricultural buildings, access is required to paved work areas open to the general public.

b. Access is required to private garages or carports which contain accessible parking.

5. Buildings and structures of Use Groups H-1, H-2 or H-3.

6. Use Group S-1 "Storage, Moderate" to the extent that such facility is not designated to be utilized by the general public.

7. Use Group S-2 "Storage, Low" to the extent that such facility is not a parking garage or open parking structure.

8. Additions, alterations or renovations to existing buildings above the street floor being converted to Use Group B, other than medical services, provided each floor above the street floor is less than 3,000 gross square feet in area and the street floor is altered or renovated to meet the accessibility provisions of this section.

9. Use Group R-1 buildings or structures which are altered or renovated having fewer than 25 guest rooms, or new buildings occupied by the proprietor and having fewer than 6 guest rooms.

10. Any building consisting of three stories or less, in other than the offices of health care providers (Use Group B), passenger transportation facilities and airports (Use Group A-3), and multi-tenant facilities of Use Group M, not otherwise exempted from these provisions, if each story above or below the street floor contains less than 3,000 gross square feet, the street floor is altered or renovated to comply with the provisions of this section, and all stories not required to be accessible are adaptable in accordance with CABO/ANSI A117.1 listed in Appendix A.

11. Temporary structures, sites, and equipment directly associated with the construction process, such as construction site trailers, scaffolding, bridging or material hoists.

**(Amd) 512.1.1 Alterations.**

Each element or space of a building or facility that is altered shall comply with these provisions, unless technically infeasible. Where full compliance is determined to be technically infeasible pursuant to Section 107.2.2, the element or space shall be made accessible to the extent to which it is not technically infeasible.

Exception: The altered element or space is not required to be on an accessible route, unless required by a change of use under Section 512.1.2.

**(Add) 512.1.1.1 Alterations Affecting an Area Containing a Primary Function.**

Where an alteration affects the usability of, or access to, an area containing a main or principal use, an accessible route to the main or principal use shall be provided. The accessible route to the main or principal use shall include any restrooms or drinking fountains serving the primary function area.

Exceptions:

1. Where the cost of providing the accessible route will exceed 20% of the costs of the alterations affecting the primary function area, alterations related to providing accessibility are permitted to be limited in cost to 20% of the total construction cost of all alterations.

2. Alterations to windows, hardware other than door hardware, operating controls, electrical outlets and signage.

3. Alterations to mechanical systems, electrical systems, installations or alteration of fire protection systems, and abatement of hazardous materials.

4. Alterations undertaken for the primary purpose of increasing the accessibility of an existing building, facility or element.

**(Add) 512.1.1.2 Scoping for Alterations.**

The following provisions shall apply for alterations to existing buildings and facilities:

1. Where it is technically infeasible to alter existing toilet rooms or bathing facilities to be accessible, at least one accessible unisex toilet or bathroom shall be provided and shall be located on the same floor and in the same area as the existing toilets or bathrooms. Each unisex toilet or bathroom shall contain one accessible water closet and lavatory, and the door shall be lockable from within the room.

2. Where existing toilet or bathing facilities are being altered and are not made accessible, directional signage shall be provided indicating the location of the nearest accessible toilet or bathing facility within the facility.

3. Where it is technically infeasible to disperse accessible seating throughout an altered assembly area, accessible seating areas are permitted to be clustered. Each accessible seating area shall have provisions for companion seating and shall be located on an accessible route that also serves as an accessible means of egress.

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

5. Platform (wheelchair) lifts, when permitted in accordance with Chapter 538, C.G.S., shall be installed in accordance with ASME A17.1, Part 2000, and shall only be used in locations to overcome differentials in floor levels where ramps or elevators cannot be utilized.

6. Where it is technically infeasible to alter existing dressing rooms to be accessible in accordance with Section 512.8.1, not less than one accessible dressing room shall be provided on an accessible level as near as practicable to the inaccessible dressing rooms. Where separate dressing rooms are provided for each sex, not less than one accessible dressing room for each sex shall be provided.

7. Where guestrooms in occupancies of Use Group R-1 are being altered, at least one for each 25 altered guestrooms shall be accessible, and at least one additional guest room for each 25 altered guest rooms shall comply with Section 807.8.7. The building is not required to exceed the requirements of Sections 512.5.7 or 807.8.7.

8. Accessible means of egress in accordance with Section 807.8 are not required as a result of alterations to existing buildings and facilities.

**(Amd) 512.1.2 Standard.**

Details, dimensions and construction specifications for items required by this section shall comply with CABO/ANSI A117.1 listed in Appendix A, and amended as follows:



1. (Amd) **Section 4.13.6.1.** Front approaches to pull side of swinging doors shall have maneuvering space that extends 24 inches (610mm) minimum beyond the latch side of the door and 54 inches (1370mm) perpendicular to the doorway.

2. (Amd) **Section 4.17.1 General.** Accessible water closets shall comply with 4.17. Water closets shall be mounted adjacent to a side wall or partition. The distance from the side wall or partition to the centerline of the water closet shall be not less than 15 inches (380mm) nor more than 18 inches (455mm). Water closets in dwelling units shall comply with 4.33.3.2.

3. (Amd) **Section 4.20.5 Faucets.** Faucets shall comply with 4.25.4. Self-closing faucets, when used, shall remain open for 10 seconds minimum. At least one lavatory per gender per floor shall have its faucet control located not more than 13 inches (330mm) from the face of the fixture or vanity front.

4. (Add) **Section 4.27.1 Tactile Warnings.** All doors leading to rooms or spaces containing hazardous operations, equipment or processes shall be equipped either with round knob latchsets with knurling or other tactile identification, or be under permanent lock and key arrangements.

5. (Amd) **Section 4.33.3.2.1.** Water closets shall be located in the corner of the adaptable bathroom. A 48 inch (1220mm) minimum clear space shall be provided in front of the bowl and from the far side wall. The distance from the centerline of the water closet to the accessible lavatory shall be 18 inches (455mm) minimum. The distance from the adjacent side wall to the centerline of the water closet shall be not less than 15 inches (380mm) nor more than 18 inches (455mm).

(Amd) **512.1.3 Definitions.**

For the purposes of this section, the following terms shall have the meaning indicated:

**Accessible.** Any portion of a site, building, facility or portion thereof that complies with this section and CABO/ANSI A117.1 listed in Appendix A, and that can be approached, entered and used by a person with physical disabilities.

**Accessible Means of Egress.** A continuous path of travel from a required accessible space to a public way which is usable by the mobility impaired.

**Accessible Route.** A continuous unobstructed path connecting all accessible elements and spaces of a building or facility which can be negotiated by a person with severe disability using a wheelchair, and which is also safe for and usable by people with other disabilities. Interior accessible routes include corridors, floors, ramps, elevators, lifts, exits and clear floor space at fixtures. Exterior accessible routes include parking access aisles, curb ramps, walks, ramps, lifts and entrances.

**Adaptability.** The capability of certain building spaces and elements, such as kitchen counters, sinks and grab bars, to be altered or added so as to accommodate the needs of persons with and without disabilities, or to accommodate the needs of persons with different types or degrees of disabilities.

**Area of Refuge.** A designated area to temporarily harbor persons with physical disabilities as specified in Section 807.8.5.

**Complete Living Facilities.** Dwelling units which include a living room, dining area, kitchen, bedroom, full bathroom and associated storage, all connected with an accessible route.

**Facility.** All or any portion of a building, structure, or area, including the site on which the building, structure or area is located, wherein specific services are provided or activities are performed.

**Physically Disabled Person.** An individual who has a physical impairment, including impaired sensory, manual or speaking abilities, that results in a functional limitation in gaining access to and using a building or facility.

**Site.** A parcel of land bounded by lot lines, designated portions of a public right-of-way, or both.

**Technically Infeasible.** An alteration of a building or facility, determined under Section 107.2.2, which has little likelihood of being accomplished because, a) the existing structural conditions require the removal or alteration of a load-bearing member which is an essential part of the structural frame, or b) because other existing physical or site constraints prohibit modification or addition of elements, spaces, or features which are in full and strict compliance with the minimum requirements for new construction and which are necessary to provide accessibility.

**(Add) 512.1.4 Change of Occupancy.**

Provisions for new construction shall apply to existing buildings that undergo a change of occupancy classification, unless technically infeasible.

**(Add) 512.1.5 Historic Structures.**

These provisions shall apply to buildings and facilities designated as historic structures that undergo additions, alterations, dismantling, reconstruction, enlargement, relocation, repair, restoration or a change in occupancy classification, unless the provisions of Section 513.0 apply. In addition to the requirements of Section 512.0, the owner shall provide a preservation and rehabilitation certificate from the Office of the Connecticut Historical Commission as part of the application for permit.

**(Add) 512.1.6 Maintenance of Facilities.**

Any building, facility, dwelling unit, or site which is constructed or altered to be accessible or adaptable shall be maintained accessible and/or adaptable during its occupancy. Accessible routes shall be maintained clear, unobstructed and unlocked during all times of building occupancy.

**(Amd) 512.2 Accessible Route.**

Accessible routes 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 they serve. Where speed bumps or vehicle wheel stops are provided along an accessible route, they shall have a clear passage width not less than 36 inches (914mm).

**(Amd) 512.2.1 Connected Spaces.**

At least one accessible route shall connect accessible spaces, elements, facilities and buildings that are on the same site. Where only one accessible route is provided, the accessible route shall not pass through kitchens, storage rooms, restrooms, closets or similar spaces.

Exceptions:

1. A single accessible route shall be permitted to pass through a kitchen or storage room in an accessible or adaptable dwelling unit.
2. Floors that are above and below accessible levels, having an aggregate area of not more than 3000 square feet, are not required to be served by an accessible route from an accessible level in other than the offices of health care providers (Use Group B), passenger transportation facilities and airports (Use Group A-3), and multi-tenant facilities of Use Group M.

(Add) **512.2.2 Interior Accessible Route.**

Where floor levels are required to be connected by an accessible route, and an interior path of travel is provided between levels, the accessible route between the levels shall also be an interior route.

(Amd) **512.3 Parking Lots, Garages and Passenger Loading Zones.**

Parking lots, public garages, open parking structures, and accessible entrances required herein shall have a number of approximately level parking spaces as set forth in Table 512.3. Each designated parking space shall be identified by an above grade sign as specified in Section 512.7, and shall meet one of the following:

- a. **Single spaces:** Each single vehicle space shall be a minimum of 15 feet (4.57m) in width and shall contain a 6 foot (1.83m) wide cross hatch aisle located on the right side of the vehicular approach to the space. Each single van space shall be a minimum of 16 feet (4876mm) in width and shall contain a 7 foot (2134mm) wide cross hatch aisle located on the right side of the vehicular approach to the space.
- b. **Shared spaces:** Each pair of adjacent spaces shall be a minimum of 9 feet (2.74m) each in width and shall share a 7 foot (2.97m) wide cross hatch aisle located between each pair of spaces. Shared parking spaces shall only be permitted where a vehicle can back into either space from the normal vehicular circulation pattern.

(Amd) **Table 512.3.**

**Table 512.3**

**Accessible Parking Spaces**

<i>Total Parking</i>	<i>Total Number of Accessible Spaces (including van spaces)</i>	<i>Required Van</i>	<i>Required Spaces</i>
Up to 25	1	1	
26 to 50	2	1	
51 to 75	3	1	
76 to 100	4	1	
101 to 150	5	1	
151 to 200	6	1	
201 to 300	7	1	
301 to 400	8	1	
401 to 500	9	2	
501 to 1000	2% of Total	Note	a
Over 1000	20 plus 1 for Each 100 Spaces Over 1000	Note	a

**Note a:** Van parking spaces shall be provided at a ratio of 1 van space for every 8 total accessible spaces.

**(Amd) 512.3.1 Use Groups R-2 and R-3.**

Two percent, but not less than one, of parking spaces provided for occupancies in Use Group R-2 which are required to have accessible/adaptable dwelling units shall be accessible. One accessible parking space shall be provided for each 4 accessible/adaptable Use Group R-3 dwellings. Where parking is provided within or beneath a building, accessible parking spaces shall also be provided within or beneath the building.

**(Amd) 512.3.2 Medical Facilities.**

Medical care facilities shall provide 10 percent accessible spaces for medical outpatient parking areas and 20 percent accessible spaces for outpatient rehabilitation parking areas. For the purposes of this exception, outpatient and outpatient rehabilitation facilities shall include those buildings, structures or portions thereof which contain services that specialize in treating conditions that affect mobility.

**(Add) 512.3.3 Parking Space Location.**

Accessible parking spaces shall be located on the shortest accessible route of travel from adjacent parking to an accessible building entrance. In parking facilities that do not serve a particular building, accessible parking spaces shall be located on the shortest route to an accessible pedestrian entrance to the parking facility. Where buildings have multiple accessible entrances with adjacent parking, accessible parking spaces shall be dispersed and located near the accessible entrances.

Exception: In multi-level parking structures, accessible van parking spaces shall be permitted on one level.

**(Add) 512.3.4 Access Clearances.**

Parking garages, open parking structures and terminals shall have a vertical clearance of 9 feet, 6 inches (2895mm) at one entrance, one exit and along the vehicular route to and from at least two (2) reserved and designated van parking spaces.

**(Amd) 512.4 Accessible Entrances.**

At least 50 percent, but not less than one entrance to each building and structure, and to each separate tenant space within the building or structure, shall comply with the accessible route provisions of CABO/ANSI A117.1 listed in Appendix A.

Exceptions:

1. Entrances to spaces not required to be accessible or adaptable as provided in Section 512.5.

2. Loading and service entrances.

**(Amd) 512.4.1 Multiple Accessible Entrances.**

Where a building or facility has entrances which normally serve accessible parking facilities, transportation facilities, passenger loading zones, taxi stands, public streets and sidewalks, or accessible interior vertical access, then at least one of the entrances serving each function shall comply with the accessible route provisions of CABO/ANSI A117.1 listed in Appendix A.

**(Add) 512.4.3 Automatic Entrances.**

At least one principal entrance to any Use Group M facility having a minimum of 50,000 square feet (4645m<sup>2</sup>) gross area, or more, shall be equipped

with an automatically operating door, or doors in sequence, in accordance with ANSI A117.1 listed in Appendix A.

**(Amd) 512.5 Use Group Requirements.**

In addition to the other requirements of this section, the requirements of Sections 512.5.1 through 512.5.7 shall apply to specific occupancies.

**(Amd) 512.5.1 Assembly Seating Accommodations.**

Places of assembly with fixed seating arrangements and grandstands shall provide accessible, level viewing positions for persons in wheelchairs, and accessible seating for other persons with physical disabilities in accordance with Table 512.5.1 and CABO/ANSI A117.1 listed in Appendix A. Removable seats shall be permitted in the wheelchair spaces. When the number of seats exceeds 300, in structures other than grandstands, wheelchair spaces shall be provided in more than one location. Additionally, at least one, but not less than one percent of all seating shall be aisle seats with folding armrests or no armrests on the aisle side and conspicuously identified at the seat location.

(Add) **Table 512.5.1** as follows:

**Table 512.5.1  
Assembly Rooms/Spaces, Accessible  
Seating Accommodations**

<i>Total Seating</i>	<i>Viewing Positions For Persons In Wheelchairs</i>
4 to 25	1
26 to 50	2
51 to 300	4
301 to 500	6
Over 500	6, Plus One Additional Space for Each Total Seating Capacity In- crease of 100.

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Any Capacity	Accessible Seats for Persons With Limited Mobility
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At Least 1 but not less than 1% of Total

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**(Amd) 512.5.1.1 Use Group A Listening Systems.**

Stadiums, theaters, auditoriums, lecture halls and similar areas having fixed seating, and which are equipped with audio-amplification systems or have an occupant load of 50 or more persons, shall have a listening system complying with CABO/ANSI A117.1 listed in Appendix A for at least 4 percent of the seats, but not less than two receivers. Such assembly areas not equipped with audio-amplification systems or with an occupant load less than 50 shall have a permanently installed assistive listening system, or an adequate number of electrical outlets or other supplementary wiring necessary to support a portable assistive listening system. Signage shall be provided to notify patrons of the availability of a listening system.

**(Amd) 512.5.2 Use Groups A-2 and A-3.**

In dining areas of occupancies of Use Groups A-2 and A-3, the total floor area allotted for seating and tables shall be accessible and in accordance with Section 512.6.10 where applicable.

## Exceptions:

1. Where necessary for line of sight, requirements of Section 512.5.1 for number and dispersion of wheelchair spaces shall be applied.
2. In buildings without elevators, an accessible route to a mezzanine dining area is not required, provided that the mezzanine contains less than 25 percent of the total area and less than one third of the total seating, and the same services are provided at the accessible area.
3. Where fixed or built-in seating or tables are provided, at least 5 percent, but not less than one, shall be accessible and be distributed throughout the facility.

**(Amd) 512.5.3 Use Group I-1.**

In occupancies of Use Group I-1, at least 4 percent, but not less than one, of the patient sleeping rooms and their bathing and toilet facilities shall be accessible.

**(Amd) 512.5.4 Use Group I-2.**

In buildings of Use Group I-2 at least 10 percent of all general care rooms, 50 percent of all chronic and convalescent care rooms, and 100 percent of all rehabilitative care rooms, together with their associated bathrooms, shall be accessible.

**(Amd) 512.5.5 Use Group I-3.**

In occupancies of Use Group I-3, at least 5 percent, but not less than one, of the resident units and their bathing and toilet facilities shall be accessible.

**(Amd) 512.5.6 Add Table 512.5.6 as follows:**

**Table 512.5.6  
Accessible Sleeping Accommodations  
Use Group R-1 Occupancies**

<i>Number of Rooms</i>	<i>Accessible Rooms</i>	<i>Roll-In Showers</i>
1 to 25	1	0
26 to 50	2	0
51 to 75	3	1
76 to 100	4	1
101 to 150	5	2
151 to 200	6	2
201 to 300	7	3
301 to 400	8	4
401 to 500	9	4 plus one for each additional 100
501 to 1000	2% of total	4 plus one for each additional 100
Over 1000	20 plus one for each additional 100	

**(Amd) 512.5.7 Use Groups R-2 and R-3.**

In buildings of Use Group R-2, all dwelling units on the street floor and on all other floors which are served by an elevator shall provide complete living facilities on an accessible level or levels, and shall be adaptable in accordance with CABO/ANSI A117.1 listed in Appendix A. In buildings of Use Group R-3, at least one dwelling unit shall be adaptable for every ten (10) such units or substantial fraction thereof, and shall have complete living facilities on an accessible level or levels; and all dwelling units having complete living facilities on a street floor shall be adaptable. All rooms and spaces available to the general public and all such spaces available for the use of the residents and serving accessible or adaptable dwelling units shall be accessible.

**Exceptions:**

1. R-2 buildings with less than 4 dwelling units.
2. R-3 buildings or building complexes with less than 10 dwelling units.

**(Amd) 512.5.7.1 Connected Dwelling Units.**

At least one accessible route shall connect accessible building or facility entrances with all accessible and adaptable dwelling units within the building or facility and with those exterior and interior spaces and facilities that serve the accessible or adaptable dwelling unit.

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

**(Add) 512.5.7.2 Distribution.**

Where dwelling units differ in the number of bedrooms provided, adaptable dwelling units of each type shall conform generally to the percentages of the unit types to the whole. Adaptable dwelling units shall be distributed throughout any building or complex. This shall not be construed so as to require a greater number of adaptable dwelling units than as computed above.

**(Add) 512.5.7.3 Recreational Facilities.**

Where recreational facilities are provided serving accessible or adaptable dwelling units in occupancies of Use Groups R-2 and R-3, at least 25 percent, but not less than one, of each type in each group of such facilities shall be accessible. All recreational facilities of each type on a site shall be considered to determine the total number of each type which are required to be accessible.

**(Add) 512.5.7.4 Residential Bathrooms.**

Adaptable bathrooms where provided for use by persons with physical disabilities in Use Groups R-2 and R-3 dwelling units shall conform to the space requirements of CABO/ANSI A117.1 as listed in Appendix A, with readily removable vanity fronts, and with wall anchorages provided for installation of all future accessible fixtures and accessories. Required heights and locations of fixtures and fittings may be adjusted to suit individual needs only within individual dwelling units.

**(Add) 512.5.7.5 Residential Kitchens.**

Adaptable kitchens for use by persons with disabilities in Use Groups R-2 and R-3 dwelling units shall conform to the space requirements of CABO/ANSI A117.1 listed in Appendix A. Kitchen cabinets and sink fronts shall be readily relocatable; refrigerator locations shall be designed to allow doors to open at least 150 degrees.

**(Amd) 512.6.1 Toilet and Bathing Facilities.**

Toilet rooms and bathing facilities shall be accessible. At least one of each type fixture or element in each accessible toilet room and bathing facility shall be accessible.

**Exceptions:**

1. A non-public toilet room or bathing facility intended for use by a single occupant shall be permitted to be adaptable.
2. This section is not applicable to dwelling units, guestrooms and patient toilet and bathing facilities which are not required to be accessible or adaptable by Section 512.5.

**(Amd) 512.6.1.1 Water Closet Compartment.**

Where water closet compartments are provided in a toilet room or bathing facility, a wheelchair "Standard Accessible" compartment, pursuant to Section P-1203.2.1 of the Plumbing Code listed in Appendix A, shall be provided. Where six or more water closet compartments are provided in a toilet room or bathing facility, at least one Ambulatory Accessible Compartment shall be provided pursuant to Section P-1203.2.4 of the Plumbing Code listed in Appendix A, in addition to the wheelchair accessible compartment. Wheelchair accessible and Ambulatory Accessible Compartments shall comply with the Plumbing Code and CABO/ANSI A117.1 listed in Appendix A.

**Exceptions:**

1. Non-required toilet rooms with a single water closet, in other than residential and institutional occupancies, are required to be adaptable.
2. Dwelling units, guest rooms and patient toilet and bathing facilities which are not required to be accessible or adaptable by Section 512.5.
3. Health Care Facilities shall comply with Section 512.5.4.
4. Special toilet rooms when provided in existing occupancies only in accordance with the separate compartment requirements of CABO/ANSI A117.1 as listed in Appendix A. Each such room shall contain both toilet and lavatory, shall have a privacy lockset and shall have an emergency call system which actuates a visible and audible alarm in a normally occupied area. An alarm pull switch shall be provided within 3 feet (914mm) of the water closet with a pull cord extending to within 12 inches (305mm) of the floor. A set of emergency instructions shall be provided at the occupied location. The fixture provided shall not be included in the fixture counts required by Section P-1202.2.

**(Amd) 512.6.2 Elevators and Lifts.**

All passenger elevators shall be accessible and comply with Section 2606.3 and CABO/ANSI A117.1 as listed in Appendix A. Platform (wheelchair) lifts shall be permitted in accordance with Section 2606.3 and Chapter 538, C.G.S.,



and only to overcome differentials in floor levels where ramps or elevators are technically infeasible. Platform (wheelchair) lifts shall be installed in accordance with ASME A17.1, Part XX, listed in Appendix A.

Exception: Elevators and lifts located within a single dwelling unit.

**(Amd) 512.6.3 Drinking Fountains.**

At least 50 percent of drinking fountains, but not less than one, shall be provided on every floor and shall be accessible.

**(Amd) 512.6.4 Storage and Locker Facilities, Dressing Rooms.**

Where storage facilities such as cabinets, shelves, closets, lockers and drawers, are provided in required accessible or adaptable spaces, at least one of each type, but not less than 5 percent, shall contain storage space complying with CABO/ANSI A117.1 listed in Appendix A. Where dressing rooms are provided in required accessible spaces, at least one, but not less than 5 percent, shall be accessible.

**(Add) 512.6.5 Warning Devices.**

Where warning signals are required by other requirements of this code, audible signals shall be accompanied by simultaneous visual signals in accordance with CABO/ANSI A117.1 as listed in Appendix A, excepting required smoke detectors.

**(Add) 512.6.5.1 R-1 Occupancies.**

Portable or fixed smoke detectors equipped with visual signals shall be provided in both accessible rooms and an equal number of other rooms not required to be accessible in all R-1 Occupancies. Outlets for such detectors, supervised by the fire alarm system, shall be provided when portable detectors are to be utilized, located as required by Section 807.8.7.

**(Add) 512.6.6 Study Carrels.**

Where fixed or built-in study carrels are provided, at least one, but not less than 5 percent, of the locations shall be accessible or adaptable.

**(Add) 512.6.7 Laboratory Stations.**

Where fixed or built-in laboratory stations are provided, at least one, but not less than 5 percent, of the locations shall be accessible or adaptable, or 100 percent of the stations shall be adaptable.

**(Add) 512.6.8 Telephones.**

Where public telephone locations are provided at least one, but not less than 25 percent, of the locations shall be accessible in accordance with CABO/ANSI A117.1 as listed in Appendix A. Where three or more telephones are provided in any one location, or where any public telephone is provided in a hospital, an accessible shelf shall be provided for use of a portable text telephone device.

**(Add) 512.6.9 Automated Teller Machines.**

Where automated teller machines (ATM's) are provided for pedestrian use at any site, at least one location shall be accessible.

**(Add) 512.6.10 Fixed or Built-In Seating or Tables.**

Where fixed or built-in seating or tables are provided, at least 5 percent, but not less than one, shall be accessible and be distributed throughout the facility.

**(Amd) 512.7 Signs.**

Required accessible elements shall be identified at the following locations, using the International Symbol of Accessibility:

1. Accessible parking spaces and reserved accessible van parking spaces required by Section 512.3. The sign shall read, "Handicapped Parking—State Permit Required—Violators Will Be Fined," and shall be not less than 12 inches (305 mm) in width and 18 inches (460 mm) in height, in accordance with Chapter 248, C.G.S. All signs shall be permanently installed.
2. Accessible passenger loading zones.
3. Accessible areas of refuge required by Section 807.8.5.
4. All accessible means of egress stairways.
5. All areas of refuge.
6. Accessible portable toilet and bathing facilities.

**(Add) 512.7.2 Interior Signage.**

All interior signs shall be raised text characters and Braille, in accordance with CABO/ANSI A117.1, Section 4.28 as listed in Appendix A. Such identification shall be placed on the wall adjacent to the latch side of the door at a height of sixty (60) inches (1524mm) to the centerline of the sign above the finished floor. Text shall contrast in color with background materials. Mounting location for such signage shall be installed so that any person approaching will not encounter protruding objects, or stand within the swing of a door.

**Exemptions:**

1. Building directory signs.
2. Signs required to be located more than 72 inches (1829mm) or less than 40 inches (1016mm) above the finished floor.

**(Add) 512.8 Customer Service Facilities.**

Customer service facilities shall comply with Sections 512.8.1 through 512.8.3.

**(Add) 512.8.1 Dressing and Fitting Rooms.**

Where dressing or fitting rooms are provided, at least 5 percent, but not less than one, in each group of rooms serving distinct and different functions shall be accessible.

**(Add) 512.8.2 Counters and Windows.**

Where customer sales and service counters or windows are provided, a portion of the counter, or at least one window, shall be accessible.

**(Add) 512.8.3 Check-out Aisles and Lanes, Service Counters.**

Where check-out aisles, lanes and service counters are provided, accessible check-out aisles, lanes and service counters, but not less than one of each type of service, shall be installed in accordance with Table 512.8.3. Traffic control devices, security devices and turnstiles located in accessible check-out aisles or lanes shall be accessible.

**(Add) Table 512.8.3**

<b>Table 512.8.3</b>	
<i>Number of Lanes/Counters</i>	<i>Accessible Stations</i>
1-4	1
5-8	2
9-15	3
more than 15	3 plus 20% of add'l. over 15

**(Add) 512.9 Controls, Operating Mechanisms and Hardware.**

Controls, operating mechanisms and hardware along accessible routes or as parts of accessible elements, including convenience switches that control lighting or ventilating, or electrical convenience outlets in accessible spaces, shall be accessible.

**(Add) 512.10 Detectable Warnings.**

Passenger transit platform edges bordering a drop-off and not protected by platform screens or guards shall have a detectable warning surface in accordance with CABO/ANSI A117.1 as listed in Appendix A.

Exception: Bus stops at curbside.

**(Amd) 513.0 Section 513.0 Special Historic Structures and Districts.****(Amd) 513.1 General.**

The provisions of this section shall apply to the addition, alteration, dismantling, reconstruction, enlargement, relocation, repair, restoration and change in occupancy classification of historic buildings or structures. The provisions of this section are intended to maintain or increase the current degree of public safety, health and general welfare without requiring full compliance with Articles 2 through 31, except where compliance with other provisions is specifically required.

**(Add) 513.1.2 Intent.**

It is the intent of this section to acknowledge the special nature of historic buildings and structures by acknowledging compliance alternatives and by permitting specific exemptions for building characteristics. Such exemptions shall not affect the safe use or construction of the building or structure. Compliance is also required with portions of the Fire Safety Code listed in Appendix A.

**(Add) 513.1.3 Registration.**

In addition to the requirements of Section 111.0 Application For Permit, the owner shall provide a preservation and rehabilitation certificate from the Office of the Connecticut Historical Commission.

**(Add) 513.1.4 Modifications and Appeals.**

Modifications and appeals shall be in accordance with Sections 107.0 and 124.0. The owner shall provide a copy of any and all modifications and appeals made to both the code official and Connecticut Historical Commission, concurrently.

**(Add) 513.2 Definitions.**

Unless otherwise expressly stated, the following terms shall, for the purposes of this section, have the meanings indicated herein.

**Historic:** Any individual building or structure, or any building or structure located within a historic district and designated as historically contributing to the district, as so designated by the Connecticut Historic Preservation Officer.

**Historic Fabric:** Any existing materials, features or finishes of the building or structure which are intact and contribute to its historic or architectural significance.

**Historic Building Museums:** An individual historic building or structure whose principal use is as an exhibit which is opened to the general public. Such openings shall be for supervised groups conducted by a docent (educated guide), or by resident or non-resident security personnel.

**Reconstruction:** Rebuilding by new construction substantiated by documentary, physical or pictorial evidence, the form and detail of a historic building or structure, or part thereof, as it appeared at a specific time; or the act or process of rebuilding a dismantled building or structure.

**Restoration:** Accurately reconstructing the building form, details, materials, or portions thereof, as it appeared at a particular period of time, by replacement or repair of damaged, worn or missing original work of historic or architectural significance; or the removal of a later period of work while preserving the historic fabric of the building or structure.

**(Add) 513.3 Accessibility.**

Historic buildings and structures shall comply with Section 512.0. If the historic fabric will be adversely altered or destroyed by strict compliance with the provisions of Section 512.0, alternative or reasonable equivalent methods of compliance for access and egress shall be permitted under Section 513.1.4.

**(Add) 513.4 Dismantled and Moved Structures.**

Historic buildings and structures which have been dismantled for reassembly or relocated shall not be subject to an increase in conformity except as necessitated by a change in use, by required separations from adjacent structures, or other conditions deemed unsafe by the code official pursuant to Section 120.0.

**(Add) 513.5 Structural.**

Changes to historic museum buildings or structures shall be permitted to be constructed with the same materials of which the building or structure was constructed, only if no greater loads are being imposed, in order to maintain the historic integrity.

**(Add) 513.6 Damages.**

Damaged historic buildings or structures shall be allowed to be restored using techniques and methods consistent with their original construction, and shall not be subject to increased conformity, except as required by the code official in accordance with Section 120.0 for unsafe conditions.

**(Add) 515.0 Buildings Under the Urban Homesteading Law.**

**(Add) 515.1 Applicability.**

Buildings or structures acquired by an urban homesteading agency in accordance with Chapter 130, Part VII, C.G.S., "Urban Homesteading," may be granted certain specific limited individual exemptions from the requirements of this Code in accordance with Chapter 541, Part 1a, C.G.S., Section 107.2 and Article 32.

## ARTICLE SIX

**Special Use and Occupancy Requirements****(Amd) 602.4.2 Secondary Water Supply.**

Add the following exception:

Exception: Automatic sprinkler systems in buildings undergoing non-structural renovations in which there is no change of use of the space.

**(Amd) 607.1.1 Openings.**

The exterior walls of the open parking structure shall have uniformly distributed openings on not less than two sides totaling not less than 40 percent of the building perimeter. The aggregate area of such openings in exterior walls in each level shall be not less than 25 percent of the total perimeter wall area of each level. Interior wall lines and column lines shall be at least 20 percent open with openings distributed to provide ventilation.

Exception: Openings are not required to be distributed over 40 percent of the building perimeter where the required openings are uniformly distributed over two opposing sides of the building.

**(Amd) 608.4 Opening Protectives.**

Door opening protectives shall comply with one of the following:

1. 1-3/4 inch solid core wood door; or
2. 1-3/4 inch solid or honeycomb core steel door.

**(Amd) 615.3 Platforms.**

For the purposes of this section a platform shall be defined as a raised area within a building which is used for: the presentation of music, plays or other entertainment; the head table for special guests; the raised area for lectures and speakers; boxing and wrestling rings; theater-in-the-round; and similar purposes wherein there are no overhead hanging curtains, drops, scenery or stage effects other than lighting. A temporary platform is one installed for use for not more than 30 days.

Exception: Curtains used as valance to screen or hide electric conduit, lighting track, or the back wall of the platform, or used as separation between the audience and the platform, shall have not more than four leg drops.

**(Amd) 618.8 Liquefied Petroleum Gas Distribution.**

The design and construction of propane, butane, propylene, butylene and other liquefied petroleum gas distribution facilities shall conform to the applicable provisions of this section and regulations adopted pursuant to Chapter 541, Part II, C.G.S. The design and installation of piping, equipment and systems which utilize liquefied petroleum gas shall be in accordance with the Mechanical Code listed in Appendix A. Liquefied petroleum gas facilities shall be ventilated in accordance with the Mechanical Code listed in Appendix A, and with Section 618.8.1.

**(Add) 623.1.1 Health Department Regulation.**

No person shall construct, substantially alter or reconstruct a swimming pool, other than for a single-family residence, until the construction documents and water discharge provisions have been approved by the State Department of Health Services, in accordance with the regulations adopted pursuant to Chapter 368a, C.G.S. Private pools shall comply with the regulations listed herein.

**(Add) 623.1.2 Access.**

When less than 50 meters (164ft) in length, public swimming pools shall be provided with ramps or approved fixed or portable lifting equipment for the purpose of providing assisted access to the water for persons with disabilities. When 50 meters (164ft) or more in length, they shall be provided with ramps. All public pools, pool decks, toilet facilities, showers, locker and dressing areas shall be accessible and located along accessible routes.

**(Add) 623.1.3 Slopes & Handrails.**

The slopes of ramps for access, where required, shall be not greater than 1:8 where located at least 24 inches (610mm) below the water line and 1:12 above that point. They shall be provided with handrailings on both sides in accordance with Section 825.0.

**(Add) 623.10.1.1 Protections From Occupancies.**

Doors from all occupied buildings leading into pool enclosures, whether indoor or outdoor, shall be required to have self-closing, self-latching hardware on the door when not in compliance with Section 623.10.1, Item 9.

**(Add) 623.10.1.2 Temporary Enclosures.**

A temporary enclosure shall be installed in accordance with Section 3006.2 prior to the commencement of the installation of any in-ground pool.

Exception: Where a permanent enclosure is provided prior to excavation.

**(Amd) 624.1.1 Permit Required.**

All temporary structures that cover an area in excess of 120 square feet (11.16m<sup>2</sup>), including all connecting areas or spaces with a common means of egress or entrance which are used or intended to be used for the gathering together of ten or more persons, shall not be erected, operated or maintained for any purpose without obtaining a permit from the code official. Special permits required by this code shall be secured from the code official.

Exceptions:

1. Tents used exclusively for recreational camping purposes.
2. Tents less than 350 square feet (32.5m<sup>2</sup>) total area.
3. Tents less than 750 square feet (69.7m<sup>2</sup>) total area when occupied by less than 50 persons, which have no heating appliances, no permanent electrical service, and are erected for less than 72 hours.

**ARTICLE EIGHT****Means of Egress****(Amd) 801.2 Number of Occupants.**

In other than buildings of Use Groups R-2, R-3 and I-1, the construction documents and the application for permit shall designate the number of occupants to be accommodated on every floor, and in all rooms and spaces as required by the code official. Unless otherwise specified, the minimum number of occupants to be accommodated by the exits shall be determined by the occupant load prescribed in Section 806.0. The allowable occupant load shall be determined by the local fire marshal during the thirty (30) day construction document review and reported to the code official. The occupant load shall be based on the exit facilities provided and in accordance with the Connecticut State Fire Safety Code.

**(Amd) 807.4.1 Remoteness.**

Where two exits or two exit access doors are required, each shall be placed a distance apart equal to not less than one-half of the length of the maximum overall diagonal dimension of the building or area to be served. Where exit enclosures are provided as a portion of the required means of egress and are interconnected by a corridor conforming to the requirements for corridor construction, the exit separation distance shall be measured along the line of travel within the corridor, in accordance with the Fire Safety Code listed in Appendix A. In all other cases, the separation distance shall be measured in a straight line between exits or exit access doors.

Exception: In buildings equipped throughout with an approved automatic fire suppression system, the minimum separation distance shall be one-third the length of the maximum overall diagonal dimension as measured above.

**(Amd) Table 807.5**

**Table 807.5**

**Length of Exit Access Travel (in feet)**

<i>Use Group</i>	<i>Without Fire Suppression Systems</i>	<i>With Fire Suppression Systems</i>
A,E,I, Group I&II Parking Garages	150	200
B,F-1,S-1	200	250
Open Parking Structures	200	300
F-2,S-2	300	400
H-1	25	75
H-2	50	100
H-3	100	150
H-4	125	175
M,R	100	200

See the following sections for modifications to travel distance requirements:

1. Section 601.4.1: For exit access travel distance limitation in malls.
2. Section 603.1.4: For exit access travel distance limitation in HPM use facilities.
3. Section 606.7: For the exit access travel distance limitation through an atrium space.
4. Section 624.9: For the exit access travel distance limitation in temporary structures.
5. Section 807.5.1: For increased limitation in Use Groups F-1 and S-1.
6. Section 807.5.2: For increased limitation in Use Group A-5.
7. Section 809.3: For buildings with one exit.
8. Sections 1004.2.1 or 1004.2.2: For buildings equipped throughout with an automatic sprinkler system.

**Note:** For purposes of this table, one foot equals 304.8 mm.

**(Amd) 807.8 Accessible Means of Egress.**

All spaces required to be accessible by Section 512.0 shall be provided with not less than one accessible means of egress. Where more than one means of egress is required from any required accessible space, each accessible portion of the space shall be served by not less than two accessible means of egress. Each accessible means of egress shall provide a continuous path of travel from a required accessible space to a public way which is usable by a mobility impaired person and shall include accessible routes, ramps, exit stairways, elevators, horizontal exits or smoke barriers.

**(Amd) 807.8.1 Exit Stairways.**

An exit stairway, to be considered part of an accessible means of egress, shall have a clear width of at least 48 inches (1219 mm) between handrails and shall either incorporate an area of refuge within an enlarged story-level landing or shall be accessed either from an area of refuge complying with Section 807.8.5 or from a horizontal exit.

**Exceptions:**

1. Stairs serving a single dwelling unit or guest room;
2. The clear width of 48 inches between handrails is not required for exit stairways accessed from a horizontal exit.

**(Amd) 807.8.2 Elevators.**

An elevator, to be considered part of an accessible means of egress, shall comply with Section 2606.0 and standby power shall be provided in accordance with Section 2707.0. The elevator shall be accessed from an area of refuge complying with Section 807.8.5 or a horizontal exit. In buildings where a required accessible floor is four or more stories above or below a level of exit discharge serving that floor, at least one elevator shall be provided and shall serve as one required accessible means of egress.

**Exceptions:**

1. In buildings equipped throughout with an automatic sprinkler system in accordance with Section 1004.2.1, and provided with a horizontal exit complying with Section 815.0, the elevator shall not be required to serve as egress access for floors which are located at or above the level of exit discharge.
2. Elevators are not required to be accessed from an area of refuge or a horizontal exit in occupancies equipped throughout with an automatic sprinkler system in accordance with Section 1004.2.1 and when provided with a smoke separation compartmentation as required by Section 911.0.

**(Add) 807.8.2.1 Platform Lifts.**

Platform (wheelchair) lifts shall not serve as part of an accessible means of egress, except within a dwelling unit.

**(Amd) 807.8.5 Areas of Refuge.**

Every required area of refuge shall be accessible from the space it serves by an accessible means of egress. The maximum travel distance from any accessible space to an area of refuge shall not exceed the travel distance permitted for the occupancy in accordance with Section 807.5. Every required area of refuge shall have either:

1. Direct access to an exit stairway complying with Section 807.8.1 or;



2. An elevator complying with Section 807.8.2.

Where an elevator lobby is used as an area of refuge, the shaft and lobby shall comply with Section 819.0 for smokeproof enclosures except where the elevators are in an area of refuge formed by a horizontal exit or smoke barrier. Every area of refuge shall be equipped with emergency lighting.

Exception: Areas of refuge are not required in open parking structures.

(Amd) **807.8.5.1 Size.**

Each required area of refuge shall be sized to accommodate one wheelchair space of 30 inches (762 mm) by 48 inches (1219 mm) for each 200 occupants or portion thereof, based on the occupant load of the area of refuge and all areas served by the area of refuge. Such wheelchair spaces shall not reduce the required means of egress width. Access to any of the required wheelchair spaces in an area of refuge shall not be obstructed by more than one adjoining wheelchair space.

(Amd) **807.8.5.2 Separation.**

Each area of refuge shall be separated from the remainder of the story by a smoke barrier complying with Section 911.0. Each area of refuge shall be designed to prevent the intrusion of smoke, except those areas of refuge located within a stairway enclosure or those areas of refuge where the area of refuge and all areas served by the areas of refuge are equipped throughout with an automatic sprinkler system in accordance with Section 1004.2.1.

(Amd) **807.8.5.3 Communication System.**

Every area of refuge in buildings more than four stories in height shall be provided with a two-way emergency communication system between the area of refuge and a central control point. In each area of refuge provided with a two-way emergency communication system, instructions on the use of the area under emergency conditions shall be posted adjoining the communication system. The instructions shall include:

1. Directions to other means of egress;
2. Advice that persons able to use the exit stairs do so as soon as possible unless they are assisting others;
3. Information on how to summon planned availability of assistance in the use of stairs or supervised operation of elevators; and
4. Directions for use of the two-way emergency communication system.

(Amd) **807.8.5.4 Identification.**

Each door providing access to an area of refuge from an adjacent floor area shall be identified by a sign complying with CABO/ANSI A117.1, listed in Appendix A stating, "Area of Refuge" and the International Symbol of Accessibility. The sign shall be illuminated as required for "Exit" signs where "Exit" sign illumination is required. Additionally, tactile signage complying with CABO/ANSI A117.1, listed in Appendix A, shall be located at each door to an area of refuge.

(Amd) **807.8.6 Signage.**

Signage indicating the location of accessible means of egress shall be installed at all exits and elevators that serve a required accessible space, but which are not an approved accessible means of egress.

(Del) **807.8.6.1** Delete Section.

(Add) **807.8.7 Alarms Systems.**

In occupancies of Use Group I-1 and R-1, all required accessible sleeping rooms and suites plus an additional number of sleeping rooms or suites in accordance with Table 807.8.7 shall be provided with a visible and audible alarm-indicating appliance, activated by both the in-room smoke detector and the building fire protective signaling system. Such alarm is permitted to be a portable unit provided by the owner when a fixed alarm/power outlet is provided within the room in accordance with CABO/ANSI A 117.1 listed in Appendix A.

**Table 807.8.7**

**Visible and Audible Alarms**

<i>Number of sleeping rooms or suites</i>	<i>Sleeping rooms or suites with visible and audible alarms</i>
6 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2% of total
1001 & over	20 plus 1 for each 100 over 1000

(Add) **807.9 Turnstiles and Checkout Lanes.**

Buildings which utilize turnstiles to control traffic shall provide a clearly marked alternate route for the physically disabled which is at least 36 inches (914mm) wide, provides at least 20 percent of the required ingress and egress, and is unlocked during business hours.

(Amd) **Table 808.2**

**Table 808.2**

**Egress Width Per Occupant<sup>a</sup>**

<i>Use Group</i>	<i>Stairways</i>	<i>Doors, Ramps, Corridors</i>
A,B,E,F,H, I-3,M,R,S <sup>c</sup>	0.3	0.2
I-1	0.4	0.2
I-2	1.0	0.7
I-2 (sprinklered)	0.6	0.5

**Note a:** All figures in inches per person

**Note b:** One inch equals 25.4mm.

**Note c:** For the required number of exits from open parking structures, see Section 809.5.

(Amd) **Table 809.3**

**Table 809.3**  
**Buildings With One Exit**

<i>Use Group</i>	<i>Maximum stories Above Grade</i>	<i>Travel Distance</i>	<i>Occupant Load</i>
B	2	75 ft.	30 occupants
F	2	50 ft.	50 occupants
M	1	50 ft.	30 occupants
S	2	50 ft.	30 occupants

**Note a.** For the required number of exits for open parking structures, see Section 809.5.

**Note b.** For the required number of exits for air traffic control towers, see Section 617.0.

**Note c.** All exit enclosures serving the level above or below the level of exit discharge must be enclosed, with no door openings to any other floor level.

(Add) **809.4.1 Educational, Day Care and Residential Board and Care Occupancies.**

Every room or space used for classroom or other educational purposes normally subject to student occupancy, and every room or space used for client occupancy, except bathrooms, in a day care or residential board and care center shall have at least one egress or rescue window.

Exceptions:

1. Buildings protected throughout by an approved automatic sprinkler system.
2. Rooms or spaces having a door discharging directly to the outside of the building.

(Amd) **809.5 Open Parking Structures.**

Parking structures shall have not less than two exits from each parking tier, except only one exit is required where vehicles are mechanically parked. Unenclosed vehicle ramps shall not be considered as required exits unless separately marked pedestrian facilities with a slope not greater than 5 percent are provided. Required interior exit stairways shall be enclosed.

(Amd) **810.2 Dead Ends.**

Exit access passageways and corridors in all stories which serve more than one exit shall provide direct connection to such exits in opposite directions from any point in the passageway or corridor insofar as practicable. The length of a dead-end passageway or corridor shall not be more than 20 feet (6.1m).

Exceptions:

1. In buildings of Use Group I-3, Use Conditions II, III or IV (see Section 307.4), the dead end in a corridor, hallway or aisle shall not exceed 50 feet (15.2m).
2. In areas of buildings or portions thereof of Use Group B where passageways are bounded by furniture, counters, partitions or similar dividers not more than 6 feet (1829mm) in height, the length of a dead end passageway shall not exceed 50 feet (15.2m).

3. Use Group H-1, H-2 and H-3 occupancies shall be so arranged that there are no dead end alcoves, hallways, corridors, passageways, pockets or courts.

**(Amd) 817.6 Treads and Risers.**

Maximum riser height shall be 7 inches (178 mm) and minimum riser height shall be 4 inches (102 mm). Minimum tread depth shall be 11 inches (279 mm), measured horizontally between the vertical planes of the foremost projection of adjacent treads and at right angles to the tread's leading edge.

Exceptions:

1. Winders in accordance with Section 817.6.2.
2. Spiral stairways in accordance with Section 817.6.3.
3. Circular stairways in accordance with Section 817.6.4.
4. Alternating tread stairways serving only unoccupied areas in accordance with Section 817.6.5.
5. Stairways serving as aisles in assembly seating areas where the stairway pitch or slope is set, for sightline reasons, by the slope of the adjacent seating area.
6. Any stairway replacing an existing stairway within a space where, because of existing construction, the pitch or slope can only be reduced to comply with Item 8 herein.
7. Existing stairways.
8. In Use Group R-3 and within dwelling units in Use Group R-2, maximum riser height shall be 8-1/4 inches (210 mm) and the minimum tread depth shall be 9 inches (229 mm) plus 1 inch (25mm) nosing on closed risers.

**(Add) 817.11.5 Re-entry.**

Every stairwell door shall allow reentry from the stairwell to the interior of the building, or an automatic release shall be provided to unlock all stairwell doors to allow re-entry. Such automatic release shall be actuated with the initiation of the building fire alarm system.

**(Amd) 824.1 General.**

Where an open-sided walking surface is elevated more than 30 inches (762mm) above another level surface or grade with an intervening slope greater than 1:3 to the nearest point of said level or grade, or where required by the provisions of Sections 609.2.2, 607.5, 803.6, 816.5, 817.7 or 1223.5, guards shall be designed and constructed in accordance with the requirements of this section and Section 1109.8. A guardrail system is a system of building components located near the open sides of elevated walking surfaces for the purpose of minimizing the possibility of an accidental fall from the walking surface to the lower level.

**ARTICLE NINE**

**Fire resistive construction**

**(Add) 910.4.1 Combustible Open-Web Floor Joists.**

Required fire partitions separating tenant or dwelling unit construction involving combustibile open-web floor joists shall extend to the underside of the floor slab or deck above.

**(Amd) 921.7.1.1 Use Groups R-1 and R-2.**

In buildings of Use Groups R-1 and R-2, draftstopping shall be in line with the tenant separation walls when the walls do not extend to the floor sheathing above and shall not exceed 500 square feet (46.5m<sup>2</sup>) in floor-ceiling assemblies utilizing combustible open-web floor trusses.

**ARTICLE TEN****Section 1001.0****Construction Documents****(Amd) 1001.2 Construction Documents.**

Construction documents and/or shop drawings for the installation of fire protection systems shall be submitted pursuant to Section 111.0 to indicate conformance with this code.

**Section 1002.0****Fire Suppression Systems****(Amd) 1002.1 Where Required.**

Automatic fire suppression systems shall be installed where required by this code, and in the locations indicated in Sections 1002.2 through 1002.10, and in all buildings more than four (4) stories or 75 feet (22.86m) in height above grade and used for human occupancy, in accordance with Chapter 541, Part II, C.G.S.

**Exceptions:**

1. An automatic fire suppression system shall not be required in portions of buildings that comply with Section 607.0 for open parking structures, unless located beneath other use groups requiring sprinklers as defined herein.

2. In telecommunications equipment buildings, an automatic fire suppression system shall not be required in those spaces or areas used exclusively for telecommunications equipment, associated electrical power distribution equipment, batteries and standby engines, provided those spaces or areas are equipped throughout with an automatic fire detection system in accordance with Section 1017.0 and are separated from the remainder of the building with fire separation assemblies consisting of 1-hour fire resistance rated walls and 2-hour fire resistance rated floor/ceiling assemblies.

3. Over swimming pool water surfaces located within the room or space of any Use Group.

**(Amd) 1002.2 Use Groups A-1, A-3, and A-4.**

Where a Use Group A-1, A-3 or A-4 fire area exceeds 12,000 square feet (1116 m<sup>2</sup>) in area, an automatic fire suppression system shall be provided as follows:

1. Throughout the entire story or floor level where the A-1, A-3, or A-4 Use Group is located;

2. Throughout all stories and floor levels below the A-1, A-3, or A-4 Use Group; and

3. Throughout all intervening stories and floor levels between the A-1, A-3, or A-4 Use Group and the highest level of exit discharge that serves any Use Group A-1, A-3, or A-4 fire areas, including the highest level of exit discharge.

Exceptions:

1. Naves and chancels of Use Group A-4 where the main floor of the nave or chancel is at the level of exit discharge of the main entrance.

2. Participant sport areas of Use Group A-3 where the main floor of the participant sport area is at the level of exit discharge of the main entrance and with no audience facilities for more than 300.

**(Amd) 1002.4 Use Group E.**

An automatic fire suppression system shall be provided throughout all classrooms below the level of exit discharge and in all buildings with a Use Group E fire area of 20,000 square feet (1860 m<sup>2</sup>) or more.

**(Amd) 1002.5 Use Group H.**

An automatic fire suppression system shall be provided throughout all Use Group H fire areas.

**(Amd) 1002.7 Use Groups M, S-1, or F-1.**

Throughout all buildings with a Use Group M, S-1 or F-1 fire area, an automatic suppression system shall be provided as follows:

1. Where any Use Group M, S-1 or F-1 fire area exceeds 12,000 square feet (1116 m<sup>2</sup>) in area;

2. Where the total combined area of all Use Group M, S-1 or F-1 fire areas exceeds 24,000 square feet (2232 m<sup>2</sup>); or

3. Where any Use Group M, S-1 or F-1 fire area is more than three stories above grade; or

4. In Use Group M throughout stories below the level of exit discharge where such stories have an area exceeding 2,500 square feet (230 m<sup>2</sup>) where used for the sale, storage, or handling of combustible goods and merchandise.

**(Amd) 1002.9 Use Group R-2.**

An automatic fire suppression system shall be provided throughout all buildings and structures, or portions thereof, of Use Group R-2 in accordance with Section 1004.2.1 or 1004.2.2.

Exceptions:

1. Use Group R-2 buildings which do not exceed two stories, including basements which are not considered as a story above grade, and with a maximum of 12 dwelling units per fire area. Each dwelling unit shall have at least one door opening to an exterior exit access that leads directly to the exits required to serve that dwelling unit.

2. Existing R-3 buildings converted to Use Group R-2, which do not exceed three families, and which do not increase the height or area of the existing building.

**Section 1012.0****Standpipe Systems****(Amd) 1012.1 General.**

Standpipe systems shall be installed and maintained in accordance with the provisions of this code and NFPA 14 listed in Appendix A. The class of service shall be as specified by the fire marshal during the 30 day plan review and reported to the code official.

**Section 1016.0****Fire Protective Signaling Systems****(Amd) 1016.4 Where Required.**

A fire protective signaling system shall be installed in full operating condition in the locations described in Sections 1016.4.1 through 1016.4.9.

**(Amd) 1016.4.1 Use Groups A or E.**

A fire protection signaling system shall be installed and maintained in all buildings of Use Group A, and in all buildings of Use Group E.

Exceptions:

1. Sanctuary and nave areas of Use Group A-4 buildings.
2. Buildings with less than 300 occupants.
3. Theaters with more than one viewing room.

**(Amd) 1016.4.2 Use Group B.**

A fire protective signaling system shall be installed and maintained in all buildings of Use Group B used as covered malls pursuant to Section 601.0, and in all other business occupancies having floors used for human occupancy which are two or more stories above the lowest level of exit discharge or which have floors two or more stories below the highest level of exit discharge.

**(Add) 1016.4.6 Use Group M.**

A fire protection signaling system shall be installed and maintained in all mercantile occupancies with an aggregate gross area of more than 30,000 square feet (2,800m<sup>2</sup>); stores utilizing more than three levels, excluding mezzanines; and all stores more than 3,000 square feet (280m<sup>2</sup>) in area utilizing floors above or below the street floor for sales purposes.

**(Add) 1016.4.7 Use Group S-1.**

A fire protection signaling system shall be installed and maintained in all buildings, other than open parking structures, which are over 100,000 square feet (9,300 m<sup>2</sup>).

Exception: Storage occupancies with a complete fire suppression system.

**(Add) 1016.4.8 Use Group F.**

A fire protection signaling system shall be installed and maintained in all factory and industrial uses with an occupancy of 100 or more, or having 25 or more persons above or below the level of exit discharge.

**Section 1018.0****Single-and Multiple-Station Smoke Detectors****(Amd) 1018.1 General.**

Single and multiple-station smoke detectors shall be of an approved type and installed in accordance with the provisions of this code and NFPA 74 listed in Appendix A. The power source shall be from the building electrical service (AC), plus a secondary battery backup (DC).

**(Amd) 1018.3.2 Use Groups R-2 and R-3.**

Single or multiple-station smoke detectors shall be installed and maintained in all dwelling units of Use Group R-2 and R-3 at the following locations:

1. In the immediate vicinity of the bedrooms;
2. In all bedrooms; and
3. In each story within the dwelling unit, including basements.

**Exceptions:**

1. In dwelling units with split levels and without an intervening door between the adjacent levels, a smoke detector 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.

2. When alterations or additions requiring a building permit occur, or when one or more sleeping rooms are added or created in existing dwellings, the entire building shall be provided with smoke detectors located as required for new dwelling units.

**ARTICLE ELEVEN****Structural Loads****(Add) 1109.5.1 Dynamic Loading.**

Buildings and structures incorporating major structural systems which are fabricated or cast and lifted to their final location as one piece, such as lift slab construction, shall be analyzed for all dynamic loads imposed by erection procedures and maximum safety limits for dynamic imbalance during erection procedures.

**(Amd) 1111.2 Ground Snow Loads.**

Ground snow loads shall be in accordance with the snow loads listed in Appendix E.

**(Del) Fig. 1111.2a. Deleted.****(Amd) 1111.4 Flat Roof and Low-slope Snow Loads.**

The snow load on unobstructed flat roofs and roofs having a slope of 30 degrees (0.52 rad) or less shall be calculated in pounds-force per square foot using the following formula, but not less than thirty pounds per square foot:

$$P_f = C_e I P_g$$

Where  $C_e$  is determined by Table 1111.4a and  $I$  is determined by Table 1111.4b. The value of  $P_f$  as calculated in Section 1111.4, shall be used for all other applications of  $P_f$ , in Section 1111.0.



Exception: The flat roof snow load on continuously heated greenhouses shall be calculated using the following formula:

$$P_f = C_{tg} C_e I P_g \text{ where } C_{tg} = 0.83.$$

**(Amd) 1111.5 Sloped Roof Snow Loads.**

Snow loads acting on a sloping surface shall be construed to act on the horizontal projection of that surface. The sloped roof snow load on roofs having a slope greater than 30 degrees (0.52 rad) shall be calculated using the following formula:

$$P_f = C_s P_f$$

Where  $P_f$  is determined by the formula and Section 1111.4 without the minimum 30 pounds per square foot requirement, and where  $C_s$  is determined by the following formula:

$$C_s = 1 - (a-30)/40$$

and "a" is the slope of the roof expressed in degrees.

Exception:  $C_s$  for continuously heated greenhouses is determined by the following formula:

$$C_s = 1 - (a-15)/55$$

**(Amd) 1112.3.2 Basic Wind Speed and Importance Factors.**

Basic wind speed and importance factors shall be in accordance with the wind speed and importance factors listed in Appendix E.

**(Del) Fig. 1112.3.2** Delete.

**(Amd) 1113.1.1 Additions to Existing Buildings.**

An addition that is structurally independent from an existing building shall be designed and constructed in accordance with the seismic requirements for new buildings. An addition that is not structurally independent from an existing building shall be designed and constructed such that the entire building conforms to the seismic requirements for new buildings unless the following three provisions are complied with:

1. The addition complies with the seismic requirements for new buildings;
2. The addition shall not increase the seismic forces in any structural element of the existing building by more than 5 percent unless the increased forces on the element are still in compliance with these provisions; and
3. No existing structural element shall be altered to reduce its seismic resistance to less than that required for a new building.

**(Amd) 1113.1.3 Seismic Ground Acceleration Maps.**

The effective peak velocity-relative acceleration ( $A_v$ ) and the effective peak acceleration ( $A_a$ ) shall be 0.13 for all municipalities.

**(Del) Fig. 1113.1.3a** Delete.

**(Del) Fig. 1113.1.3b** Delete.

ARTICLE TWELVE

**Foundation Systems and Retaining Walls**

**(Amd) Table 1201.3 Amend Table 1201.3** as follows:

**Table 1201.3****Presumptive Bearing Values of  
Foundation Materials**

<i>Class of Material</i>	<i>Bearing Pressure (tons per square foot)</i>
1. Massive crystalline bedrock including granite, diorite, gneiss, trap rock, hard limestone and dolomite: . . . . .	100
2. Foliated rock including bedded limestone, schist and slate in sound condition: . . . . .	40
3. Sedimentary rock including hard shales, sandstones and thoroughly-cemented conglomerates: . . . . .	25
4. Soft or broken bedrock (excluding shale) and soft limestone: . . . . .	10
5. Compacted, partially-cemented gravels, sand and hardened overlying rock: . . . . .	10
6. Gravel and sand-gravel mixtures: . . . . .	6
7. Loose gravel, hard dry clay, compact coarse sand, and soft shales: . . . . .	4
8. Loose, coarse sand and sand-gravel mixtures and compact fine sand (confined): . . . . .	3
9. Loose medium sand (confined), stiff clay: . . . . .	2
10. Soft broken shale, soft clay: . . . . .	1.5

**(Add) 1205.1.1 Frost Protection Minimum Depth.**

Except as provided herein or as approved by submission of adequate structural design analysis, the minimum required depth of the bottom of footings shall be 42 inches below grade.

**ARTICLE THIRTEEN****Materials and Tests****(Amd) 1308.1 General.**

The owner shall provide special inspections and coordination thereof, as described in this section. The special inspectors shall be qualified and approved for the inspection of the work described herein.

**Exceptions:**

1. Special inspections are not required for tents, fences, carports, sheds, and structures classified as Use Group R-3.
2. Special inspections are not required for building components less than 5,000 square feet total area not otherwise regulated under the provisions for licensing of architects and engineers under Chapters 390 and 391, C.G.S.
3. Special Inspections are not required for formwork which will not remain as a permanent load bearing component of a structural member or element.

**(Amd) 1308.1.1 Building Permit Requirement.**

The permit applicant shall submit a Statement of Special Inspections, prepared by the licensed engineer of record, in accordance with Section 108.1

and approved by the code official, as a condition for permit issuance. This statement shall include a complete list of materials and work requiring special inspections by this section, the inspections to be performed, a list of the individual special inspectors, approved agencies and/or firms intended to be retained for conducting such inspections, and a schedule of interim reports, all of which shall be coordinated by the engineer of record. Replacements of special inspectors shall be approved by the code official.

**(Amd) 1308.1.2 Report Requirement.**

Special inspectors shall record all inspections. A coordinator for special inspections shall furnish inspection reports to the code official, and to the engineer or architect of record. All discrepancies shall be brought to the immediate attention of the contractor for correction. If any discrepancies are not corrected, they shall be brought to the attention of the code official and to the architect or engineer of record. The coordinator of special inspections shall submit a final report of inspections documenting completion of all required special inspections and correction of any discrepancies noted prior to issuance of a certificate of use and occupancy. Interim reports shall be submitted periodically as scheduled.

ARTICLE TWENTY-FIVE

**Mechanical Equipment and Systems**

**(Add) 2511.0 Portable Space Heating.**

**(Add) 2511.1 Portables.**

Portable space heaters shall comply with the requirements of Chapter 541, Part II, C.G.S.

ARTICLE TWENTY-SIX

**Elevator, Dumbwaiter and Conveyor Equipment  
Installation and Maintenance**

**(Amd) 2600.1 Scope.**

The provisions of this article shall control the design, construction, installation, maintenance and operation of special hoisting and conveying equipment, including manlifts, industrial lifts and loading ramps, automotive lifts, conveyors, escalators, and the hoistway enclosures and venting.

**(Add) 2600.1.1 Equipment Regulated by Statute.**

All elevators, dumbwaiters, material lifts, vertical and inclined chair lifts and escalators including existing systems, shall comply with regulations adopted pursuant to Chapter 538, C.G.S. Where any provisions of this article conflict with other statutory or regulatory provisions, those requirements shall prevail.

**(Amd) 2600.2 Referenced Standards.**

Except as otherwise provided for in this code, the construction, alteration, maintenance, operation, inspection and testing of elevators, dumbwaiters, moving walks, manlifts and special hoisting and conveying equipment shall conform to the applicable provisions of ASME A17.1, A17.1a-1988-Addenda, A90.1 and B20.1 and ANSI 10.4, A10.5 and B153.1 as listed in Appendix A.

Exception: Reference standards shall conform to the Elevator Safety Code adopted pursuant to Chapter 538, C.G.S. wherever a conflict occurs.

**(Add) 2600.4 Wheelchair Lifts.**

Wheelchair lifts shall comply with regulations adopted pursuant to Chapter 538, C.G.S., and the requirements of ASME A17.1/1987, Part XX, for lifts servicing all places of public accommodation or employment, and Part XXI, for lifts servicing individual dwelling units only.

**(Amd) 2601.1 Application.**

The persons responsible for the installation, relocation or alteration of any equipment covered by this article or the General Statutes cited in this article shall file an application for permit with the code official and with the Department of Public Safety where required, accompanied by governing specifications and accurately scaled or fully dimensioned plans showing: The location of the installation in relation to the plans and elevation of the building; the location of the machinery room and equipment to be installed, relocated or altered; and all structural supporting members thereof, including foundations. Such construction documents shall specify all materials to be employed and all loads to be supported or conveyed and shall be sufficiently complete to illustrate all details of construction and design.

**(Amd) 2602.1 General.**

All equipment and devices covered by this code and Chapter 538, C.G.S., shall be subjected to acceptance and maintenance tests and periodic inspections as required therein.

**(Del) 2603.0 Delete Section.**

**(Amd) 2604.5 Accidents Reported and Recorded.**

The owner of the building shall immediately notify the Department of Public Safety of every accident involving personal injury or damage to apparatus on, about, or in connection with any equipment covered by this article, and shall afford the Department every facility for investigating such accident. When an accident involves the failure, breakage, damage, or destruction of any part of the apparatus or mechanism, it shall be unlawful to use such device until after an examination by the Department of Public Safety is made and the approval of the equipment for continued use is granted.

**(Amd) 2607.7 Plumbing and Mechanical Systems.**

Plumbing and mechanical systems other than floor drains, sumps, or sump pumps located at the base of the shaft, or fire sprinkler protection, shall not be located in an elevator shaft.

**ARTICLE TWENTY-EIGHT**

**Plumbing Systems**

**(Amd) 2804.3 Private Water Supply.**

Installations shall be approved in accordance with this code and the regulations enforced by the local Director of Health in accordance with Chapters 368a and 446k, C.G.S.

**(Amd) 2807.1 Private Sewage Disposal Systems.**

Installations shall be approved in accordance with this code and the regulations enforced by the local Director of Health in accordance with Chapters 368a and 446k, C.G.S.

## ARTICLE TWENTY-NINE

**Signs**

(Del) **2906.0** Delete Section.

## ARTICLE THIRTY

**Precautions During Building Operations**

(Add) **3000.2.1 Lift Slab Operations.**

All buildings and structures involving the lift slab method of construction shall comply with the procedures and precautions as required by the Occupational Safety and Health Administration (OSHA) for lift slab construction.

## ARTICLE THIRTY-ONE

**Energy Conservation**

(Amd) **3100.1 Scope.**

The provisions of this article shall regulate the design and construction of the exterior envelope and selection of HVAC, service water heating, electrical distribution and illumination systems and equipment for effective use of energy, and shall govern all buildings and structures, or portions thereof, hereafter erected which provide facilities or shelter for human occupancy.

**Exceptions:**

1. Buildings or structures, or portions thereof, which are neither heated nor cooled.

2. Buildings or structures, or portions thereof, whose peak design rate of energy usage is less than 1 watt per square foot ( $10.75\text{W}/\text{m}^2$ ) or 3.4 Btu per hour per square foot ( $10.75\text{W}/\text{m}^2$ ) of floor area for all purposes.

3. Buildings of Use Groups F and U whose peak design rate of annual energy usage is less than 29,784 Btu per square foot ( $94\text{kW}/\text{m}^2$ ) or 8.76kW hours per square foot ( $94\text{kW}/\text{m}^2$ ) of floor area.

(Amd) **3100.2 Other Standards.**

Compliance with the applicable provisions of ASHRAE 90.1 listed in Appendix A shall be deemed to meet the requirements of this article, unless otherwise specifically provided for herein.

(Amd) **3102.2 Criteria for Residential Buildings.**

The requirements herein shall apply to all buildings or structures or portions thereof of Use Group R that are heated or mechanically cooled. The total building envelope energy loss shall not exceed the total energy loss resulting from the combination of all applicable components. Residential buildings more than 3 stories in height are permitted alternatively to comply with the requirements of Section 3102.3.

(Amd) **3102.2.1 Walls.**

The  $U_0$  value for the gross exterior wall assembly above the foundation shall not exceed 0.125 BTU per hour, per square foot, per degree Fahrenheit (BTUH/SF/oF).

(Del) **Fig. 3102.2.1a** Delete

(Del) **Fig. 3102.2.1b** Delete

(Del) **Fig. 3102.2.1c** Delete

(Amd) **3102.2.2 Roof/Ceiling.**

The  $U_o$  value for the gross roof/ceiling assembly shall not exceed 0.03 BTUH/SF/°F.

(Del) **Fig. 3102.2.2** Delete

(Amd) **3102.2.3 Floors Over Unheated Spaces.**

The  $U_o$  value for the floor of a heated or mechanically cooled space located over an unheated space shall not exceed 0.08 BTUH/SF/°F.

(Del) **Fig. 3102.2.3** Delete

(Amd) **3102.2.4 Slab-On-Grade Floors.**

For slab-on-grade floors, the perimeter of the floor shall be insulated with a material having a thermal resistance value (R) not less than 7 for heated slabs and 5 for unheated slabs. The insulation shall extend downward from the top of the slab for a minimum distance of 24 inches (610 mm), or downward to the bottom of the slab then horizontally beneath the slab for a minimum total distance of 24 inches (610 mm).

(Del) **Fig. 3102.2.4.** Delete

(Amd) **3102.3 Other Buildings.**

The requirements herein shall govern all buildings and structures or portions thereof other than defined by Section 3102.2. The buildings shall comply with requirements of ASHRAE 90.1 listed in Appendix A.

Exception: The total building envelope energy loss for buildings less than 5,000 square feet (465m<sup>2</sup>) in area are permitted alternatively to comply with the values for residential buildings described in Section 3102.2.

(Amd) **3102.3.1 Walls.**

The gross wall area adjacent to unconditioned space shall comply with the requirements of Section 8, Building Envelope, or Section 13, Building Energy Cost Budget Method of ASHRAE 90.1 listed in Appendix A.

(Amd) **3102.3.2 Roof/Ceiling.**

The gross roof/ceiling area adjacent to unconditioned space shall comply with the requirements of Section 8, Building Envelope, of ASHRAE 90.1 listed in Appendix A.

(Amd) **3102.3.3 Floors.**

The gross floor area adjacent to unconditioned space shall comply with the requirements of Section 8, Building Envelope, of ASHRAE 90.1 listed in Appendix A.

(Del) **3102.3.4** Delete Section.

(Del) **3102.3.5** Delete Section.

(Del) **3102.3.6** Delete Section.

(Del) **3102.3.7** Delete Section.

**(Amd) 3103.1 Lighting.**

The lighting system shall comply with the requirements of Section 6, Lighting, of ASHRAE 90.1 as listed in Appendix A.

Exception: For buildings under 5,000 square feet (465m<sup>2</sup>) total gross area, the following is permitted as the maximum allowable unit lighting power allowance (ULPA), in watts per square foot, based upon the Use Group Classification:

**(Add) Table 3103.1.1**

**Interior Lighting Power Allowance**

<i>Use Group Classification</i>	<i>ULPA (watts/SF)</i>
Assembly A-1	1.0
A-2, A-4	2.5
A-3	1.9
Business B, Educational E	1.8
Mercantile-M	3.1
Storage-S	0.7
Storage-Garages	0.3

**(Add) Table 3103.1.2** The following table shall be the maximum exterior lighting unit power allowance:

**Exterior Lighting Power Allowance**

<i>Area Description</i>	<i>Allowance</i>
Exit(s)	25 watts/sf of door opening
Entrance, w/o canopy	30 watts/sf of door opening
Entrance, w/ canopy	4 watts/sf of canopied area
Loading Area	0.40 watts/sf
Loading Door	20 watts/sf of door opening
Building Exterior Surfaces	0.25 watts/sf of illuminated area
Storage Area	0.20 watts/sf
Areas for Casual Activity	0.10 watts/sf
Private Drives/Walks	0.10 watts/sf
Public Drives/Walks	0.15 watts/sf
Private Parking Lots	0.12 watts/sf
Public Parking Lots	0.18 watts/sf

**Note a:** Lighting controls shall comply with Sections 6.4.2.2, 6.4.2.3, 6.4.2.5, 6.4.2.6 and Table 6-2 of ASHRAE 90.1 as listed in Appendix A.

**Note b:** Switching shall be provided for each lighting circuit, or for portions of each circuit, to enable selective operation of partial lighting required for custodial or effective complementary use with natural lighting.

**(Amd) 3103.2 Separate Metering.**

In all buildings of Use Group R-2 and R-3, other than dormitories, provisions shall be made to determine the electrical energy consumed by separately metering each individual dwelling unit and all common facilities.

**(Add) 3103.3 Equipment.**

The electrical system shall comply with the requirements of Section 5, Electrical Power, of ASHRAE 90.1 as listed in Appendix A. All permanently wired polyphase motors of 1 hp, or more, serving the building shall have a minimum nominal full-load motor efficiency not less than those listed below and shall not exceed 125% of the calculated maximum load being served.

**(Add) Table 3103.3**

**Table 3103.3**  
**Motor Efficiencies**

<i>hp</i>	<i>Efficiency</i>
1-4	78.5 percent
5-9	84.0 percent
10-19	85.5 percent
20-49	88.5 percent
50-99	90.2 percent
100-124	91.7 percent
125 or greater	92.4 percent

**(Amd) 3105.1 Service Water Heating Systems and Equipment.**

Service water heating systems and equipment shall comply with the requirements of Section 11, Service Water Heating Systems and Equipment, of ASHRAE 90.1 listed in Appendix A. Residential hot water heating systems and equipment shall comply with the energy conservation provisions of the Plumbing Code.

**(Add) 3105.2 Hot Water Control Requirements.**

The control of flow and temperature of service water heating systems shall comply with the energy conservation provisions of the plumbing code.

**(Add) 3105.3 Swimming Pools.**

Swimming pools shall comply with the criteria as specified in Section 11.4.6, Swimming Pools, of ASHRAE 90.1 listed in Appendix A.

**(Add) 3105.4 Pool Heaters.**

All gas fired pool heaters shall have a thermal efficiency of 78 percent when tested in accordance with ANSI-Z21.56-1986.

**ARTICLE THIRTY-TWO****Repair, Alteration, Addition to, and Change of Use  
of Existing Buildings****(Amd) 3200.1 Scope.**

The provisions of this article shall maintain or increase public safety, health, and general welfare in existing buildings by permitting repair, alteration, addition, and/or change of use without requiring full compliance with Arti-



cles 2 through 29 and Article 31, except in those buildings as provided for in Sections 512.0 and 513.0, and as provided by Chapter 541, Part Ia, C.G.S.

**(Amd) 3202.1 General.**

The provisions in Sections 3202.1 through 3202.1.5 shall apply to existing buildings that will continue to be, or are proposed to be, in Use Groups A, B, E, F, M, R and S.

**(Amd) 3202.1.1 Change in Use.**

Where an existing building or portion thereof is changed to a new use group classification and where this article is applicable, the provisions of this article for the new use group shall be used to determine compliance with this code.

Exception: All provisions for required plumbing fixtures and natural or mechanical ventilation shall comply with applicable provisions of the Plumbing and Mechanical Codes as listed in Appendix A.

**APPENDIX A**

**Referenced Standards**

(Amd) The following additions and deletions as identified shall be added or deleted from Appendix A as noted:

(Del) ASHRAE 90A-80 and 90B-75 Delete.

(Add) ASHRAE 90.1 - 1989

(Amd) ASME A17.1a-1988-Addenda, Safety Code for Elevators and Escalators

(Amd) ASME A17.1-1987, Part XX, Inclined Stairway Chair Lifts and Inclined and Vertical Wheelchair Lifts

(Del) BOCA NPSDC - 1990 Delete.

(Del) BOCA NFPC - 1990 Fire Protection Code. Delete.

(Add) Fire Protection Code - Connecticut State Fire Safety Code - 1993, as administered and enforced by the Authority Having Jurisdiction

(Del) BOCA NPMC - 1990 Delete.

(Add) CABO/ANSI A117.1-1992

(Del) ANSI A117.1-1986 Delete.

(Add) MIA Residential Fireplace and Chimney Handbook-1983.

(Del) NFIPA 70 - 1990 Delete.

(Add) NFIPA 70 - 1993 National Electrical Code

(Del) NFoPA. NDS-86 National Design Specification for Wood Construction with 1987 Revisions-1988 Supplement - Delete.

(Add) NFoPA. NDS-91 National Design Specification for Wood Construction 1991-with 1991 Supplement; Design Valves for Wood Construction

(Add)

## APPENDIX E

## Snow and Wind Loadings

	<i>Ground Snow Load</i>	<i>Wind Speed</i>	<i>Importance Factor</i>		
			<i>I</i>	<i>II &amp; III</i>	<i>IV</i>
Andover	30	85	1.02	1.08	0.97
Ansonia	30	80	1.03	1.09	0.98
Ashford	30	85	1.02	1.08	0.97
Avon	30	80	1.02	1.08	0.97
Barkhamsted	35	75	1.01	1.07	0.96
Beacon Falls	30	80	1.03	1.09	0.98
Berlin	30	80	1.03	1.09	0.98
Bethany	30	80	1.03	1.09	0.98
Bethel	30	80	1.03	1.09	0.98
Bethlehem	35	80	1.02	1.08	0.97
Bloomfield	30	80	1.02	1.08	0.97
Bolton	30	85	1.02	1.08	0.97
Bozrah	30	85	1.03	1.09	0.98
Branford	30	85	1.04	1.10	0.99
Bridgeport	30	80	1.04	1.10	0.99
Bridgewater	30	80	1.03	1.09	0.98
Bristol	30	80	1.02	1.08	0.97
Brookfield	30	80	1.03	1.09	0.98
Brooklyn	30	85	1.03	1.09	0.98
Burlington	35	80	1.02	1.08	0.97
Canaan	45	75	1.01	1.07	0.96
Canterbury	30	85	1.03	1.09	0.98
Canton	35	80	1.02	1.08	0.97
Chaplin	30	85	1.02	1.08	0.97
Cheshire	30	80	1.03	1.09	0.98
Chester	30	85	1.04	1.10	0.99
Clinton	30	85	1.04	1.10	0.99
Colchester	30	85	1.03	1.09	0.98
Colebrook	45	75	1.01	1.07	0.96
Columbia	30	85	1.03	1.09	0.98
Cornwall	45	75	1.01	1.07	0.96
Coventry	30	85	1.02	1.08	0.97
Cromwell	30	80	1.03	1.09	0.98
Danbury	30	80	1.03	1.09	0.98
Darien	30	80	1.04	1.10	0.99
Deep River	30	85	1.04	1.10	0.99
Derby	30	80	1.03	1.09	0.98
Durham	30	85	1.03	1.09	0.98
Eastford	30	85	1.02	1.08	0.97
East Granby	30	80	1.01	1.07	0.96
East Haddam	30	85	1.03	1.09	0.98
East Hampton	30	85	1.03	1.09	0.98
East Hartford	30	80	1.02	1.08	0.97

	<i>Ground Snow Load</i>	<i>Wind Speed</i>	<i>Importance Factor</i>		
			<i>I</i>	<i>II &amp; III</i>	<i>IV</i>
East Haven	30	85	1.04	1.10	0.99
East Lyme	30	85	1.04	1.10	0.99
Easton	30	80	1.03	1.09	0.98
East Windsor	30	80	1.02	1.08	0.97
Ellington	30	80	1.02	1.08	0.97
Enfield	30	80	1.01	1.07	0.96
Essex	30	85	1.04	1.10	0.99
Fairfield	30	80	1.04	1.10	0.99
Farmington	30	80	1.02	1.08	0.97
Franklin	30	85	1.03	1.09	0.98
Glastonbury	30	80	1.02	1.08	0.97
Goshen	45	75	1.01	1.07	0.96
Granby	35	80	1.01	1.07	0.96
Greenwich	30	80	1.03	1.09	0.98
Griswold	30	85	1.03	1.09	0.98
Groton	30	85	1.04	1.10	0.99
Guilford	30	85	1.04	1.10	0.99
Haddam	30	85	1.03	1.09	0.98
Hamden	30	80	1.03	1.09	0.98
Hampton	30	85	1.02	1.08	0.97
Hartford	30	80	1.02	1.08	0.97
Hartland	45	75	1.01	1.07	0.96
Harwinton	35	80	1.02	1.08	0.97
Hebron	30	85	1.03	1.09	0.98
Kent	35	75	1.02	1.08	0.97
Killingly	30	85	1.03	1.09	0.98
Killingworth	30	85	1.04	1.10	0.99
Lebanon	30	85	1.03	1.09	0.98
Ledyard	30	85	1.04	1.10	0.99
Lisbon	30	85	1.03	1.09	0.98
Litchfield	35	75	1.02	1.08	0.97
Lyme	30	85	1.04	1.10	0.99
Madison	30	85	1.04	1.10	0.99
Manchester	30	80	1.02	1.08	0.97
Mansfield	30	85	1.02	1.08	0.97
Marlborough	30	85	1.03	1.09	0.98
Meriden	30	80	1.03	1.09	0.98
Middlebury	30	80	1.03	1.09	0.98
Middlefield	30	80	1.03	1.09	0.98
Middletown	30	80	1.03	1.09	0.98
Milford	30	85	1.04	1.10	0.99
Monroe	30	80	1.03	1.09	0.98
Montville	30	85	1.04	1.10	0.99
Morris	35	75	1.02	1.08	0.97
Naugatuck	30	80	1.03	1.09	0.98
New Britain	30	80	1.02	1.08	0.97
New Canaan	30	80	1.03	1.09	0.98

	<i>Ground Snow Load</i>	<i>Wind Speed</i>	<i>Importance Factor</i>		
			<i>I</i>	<i>II &amp; III</i>	<i>IV</i>
New Fairfield	35	75	1.03	1.09	0.98
New Hartford	35	75	1.02	1.08	0.97
New Haven	30	85	1.04	1.10	0.99
Newington	30	80	1.02	1.08	0.97
New London	30	85	1.04	1.10	0.99
New Milford	35	75	1.02	1.08	0.97
Newtown	30	80	1.03	1.09	0.98
Norfolk	45	75	1.01	1.07	0.96
North Branford	30	85	1.04	1.10	0.99
North Canaan	45	75	1.01	1.07	0.96
North Haven	30	80	1.03	1.09	0.98
North Stonington	30	85	1.04	1.10	0.99
Norwalk	30	80	1.04	1.10	0.99
Norwich	30	85	1.03	1.09	0.98
Old Lyme	30	85	1.04	1.10	0.99
Old Saybrook	30	85	1.04	1.10	0.99
Orange	30	85	1.04	1.10	0.99
Oxford	30	80	1.03	1.09	0.98
Plainfield	30	85	1.03	1.09	0.98
Plainville	30	80	1.02	1.08	0.97
Plymouth	30	80	1.02	1.08	0.97
Pomfret	30	85	1.02	1.08	0.97
Portland	30	80	1.03	1.09	0.98
Preston	30	85	1.04	1.10	0.99
Prospect	30	80	1.03	1.09	0.98
Putnam	35	85	1.02	1.08	0.97
Redding	30	80	1.03	1.09	0.98
Ridgefield	30	80	1.03	1.09	0.98
Rocky Hill	30	80	1.02	1.08	0.97
Roxbury	30	80	1.02	1.08	0.97
Salem	30	85	1.03	1.09	0.98
Salisbury	45	75	1.01	1.07	0.96
Scotland	30	85	1.03	1.09	0.98
Seymour	30	80	1.03	1.09	0.98
Sharon	45	75	1.01	1.07	0.96
Shelton	30	80	1.03	1.09	0.98
Sherman	35	75	1.02	1.08	0.97
Simsbury	30	80	1.02	1.08	0.97
Somers	30	80	1.01	1.07	0.96
Southbury	30	80	1.03	1.09	0.98
Southington	30	80	1.03	1.09	0.98
South Windsor	30	80	1.02	1.08	0.97
Sprague	30	85	1.03	1.09	0.98
Stafford	35	80	1.01	1.07	0.96
Stamford	30	80	1.03	1.09	0.98
Sterling	30	85	1.03	1.09	0.98
Stonington	30	85	1.04	1.10	0.99

	<i>Ground Snow Load</i>	<i>Wind Speed</i>	<i>Importance Factor</i>		
			<i>I</i>	<i>II &amp; III</i>	<i>IV</i>
Stratford	30	85	1.04	1.10	0.99
Suffield	30	80	1.01	1.07	0.96
Thomaston	30	80	1.02	1.08	0.97
Thompson	35	85	1.02	1.08	0.97
Tolland	30	80	1.02	1.08	0.97
Torrington	35	75	1.02	1.08	0.97
Trumbull	30	80	1.03	1.09	0.98
Union	35	85	1.02	1.08	0.97
Vernon	30	80	1.02	1.08	0.97
Voluntown	30	85	1.03	1.09	0.98
Wallingford	30	80	1.03	1.09	0.98
Warren	35	75	1.02	1.08	0.97
Washington	35	75	1.02	1.08	0.97
Waterbury	30	80	1.03	1.09	0.98
Waterford	30	85	1.04	1.10	0.99
Watertown	30	80	1.02	1.08	0.97
Westbrook	30	85	1.04	1.10	0.99
W. Hartford	30	80	1.02	1.08	0.97
W. Haven	30	85	1.04	1.10	0.99
Weston	30	80	1.03	1.09	0.98
Westport	30	80	1.04	1.10	0.99
Wethersfield	30	80	1.02	1.08	0.97
Willington	30	85	1.02	1.08	0.97
Wilton	30	80	1.03	1.09	0.98
Winchester	45	75	1.01	1.07	0.96
Windham	30	85	1.03	1.09	0.98
Windsor	30	80	1.02	1.08	0.97
Windor Locks	30	80	1.02	1.08	0.97
Wolcott	30	80	1.03	1.09	0.98
Woodbridge	30	80	1.03	1.09	0.98
Woodbury	30	80	1.02	1.08	0.97
Woodstock	35	85	1.02	1.08	0.97

(Add)

## APPENDIX F

**Other Referenced Standards**

When any standard referenced by this Appendix references within its text an edition of a standard that is contrary to one contained herein, the standard that is referenced within this Appendix shall take precedence.

NFiPA 30, Flammable and Combustible Liquids Code. As amended and adopted by the Commissioner of Public Safety pursuant to Section 29-320, C.G.S.

NFiPA 31, Standard for the Installation of Oil Burning Equipment.

As amended and adopted by the Commissioner of Public Safety pursuant to Section 29-317, C.G.S.

NFiPA 32-1990, Standard for Dry Cleaning Plants.

NFiPA 54, National Fuel Gas Code. As amended and adopted by the Commissioner of Public Safety pursuant to Section 29-329, C.G.S.

NFiPA 58, Standard for the Storage and Handling of Liquefied Petroleum Gases. As amended and adopted by the Commissioner of Public Safety pursuant to Section 29-331, C.G.S.

NFiPA 96-1991, Recycling Hoods.

## **BOCA NATIONAL MECHANICAL CODE**

### **ARTICLE 1**

(Del) **Article 1, Administration and Enforcement.** Delete.

### **ARTICLE 4**

#### **Mechanical Equipment**

(Amd) **M-400.1 Scope.**

Except as may be otherwise regulated by general statutes or regulations of other state agencies, this article shall govern the approval and installation of all mechanical equipment and appliances.

(Add) **M-400.1.1 Boilers.**

Boilers carrying a pressure of fifteen psi or greater shall comply with this code and the regulations adopted pursuant to Chapter 540, C.G.S.

(Add) **M-400.1.2 Oil Burners.**

Oil burners and space heaters shall comply with this code and the regulations adopted pursuant to Chapter 541, Part II, C.G.S.

### **ARTICLE 6**

#### **Boilers and Water Heaters**

(Amd) **M-600.1 Scope.**

This article shall govern installation, alteration and repair of all water heaters and boilers, except where superseded by regulations adopted pursuant to Chapter 540, C.G.S.

### **ARTICLE 7**

#### **Hydronic Piping**

(Amd) **M-700.1 Scope.**

This article shall govern the installation, alteration and repair of all hydronic piping systems except where superseded by regulations adopted pursuant to Chapter 540, C.G.S. for steam piping.

### **ARTICLE 8**

#### **Gas Piping Systems**

(Amd) **M-800.1 Scope.**

This article shall govern the installation, maintenance and repair of fuel gas piping systems, except where governed by regulations adopted pursuant

to Chapter 541, C.G.S. Regulation of piping systems shall extend from the point of delivery to the connections with each utilization device. For other than undiluted liquefied petroleum gas systems, the point of delivery is the outlet of the service meter assembly, or the outlet of the service regulator or service shutoff valve when no meter is provided. For undiluted liquefied petroleum gas systems, the point of delivery is the outlet of the first stage of pressure regulator. Regulation of piping systems includes design, materials, components, fabrication, assembly, installation, testing, inspection, operation and maintenance.

#### ARTICLE 9

##### **Fuel Oil Piping**

**(Amd) M-900.1 Scope.**

This article shall govern the design, installation, construction and repair of fuel oil piping and storage, except where superseded by regulations adopted pursuant to Chapter 541, Part II, C.G.S., and applicable provisions of NFiPA 31, Chapter 2, listed in Appendix A.

**(Amd) M-900.2.**

The storage of fuel oil shall conform to the requirements established by NFiPA 31, Chapter 2, listed in Appendix A.

#### ARTICLE 11

##### **Clearance Reduction**

**(Amd) M-1101.1 Compliance with Statutory Requirements.**

Heat producing and comfort-cooling equipment shall be installed in accordance with the regulations adopted by the Commissioner of Public Safety under the provisions of Chapter 541, Part II, C.G.S. concerning fuel oil burners, the installation and operation of gas equipment and piping, liquefied petroleum gas and liquefied natural gas; and Chapter 540, C.G.S. concerning steam boilers.

#### ARTICLE 19

##### **Energy Conservation**

**(Amd) M-1901.2 Cooling With Outdoor Air.**

Each fan system shall be designed to use up to and including 100 percent of the fan system capacity for cooling with outdoor air automatically whenever the use of outdoor air will result in lower usage of energy than would be required under normal operation of the fan system.

Exception: Cooling with outdoor air is not required under any one or more of the following conditions:

1. Where the quality of the outdoor air is so poor as to require extensive treatment of the air.
2. Where the need for humidification or dehumidification requires the use of more energy than is conserved by outdoor air on an annual basis.
3. Where the use of outdoor air would affect the operation of other systems (such as return or exhaust fans or supermarket refrigeration) so as to increase the overall energy consumption of the building.

4. Where the use of 100 percent outside air will cause coil frosting, controls are permitted to be added to reduce the quantity of outside air. The intent of this exception, however, is to use 100 percent in lieu of mechanical cooling when less energy usage will result. This exception applies only to direct expansion systems when the compressor(s) is running.

5. Where the fan system will regularly be operated for less than 30 hours per week.

6. Where the total design sensible cooling load is less than 6.8 Btuh/ft<sup>2</sup> (21.6 W/m<sup>2</sup>) of floor area.

7. For buildings of Use Groups R-2 and R-3.

(Add) **M-1902.6.1 Efficiency.**

The minimum annual fuel utilization efficiency rating (AFUE) for gas furnaces shall be 70%. For oil furnaces, the minimum AFUE shall be 75%.

(Del) **M-2000.4.1** Delete Section.

## BOCA NATIONAL PLUMBING CODE

### ARTICLE 1

#### Administration and Enforcement

(Del) **Article 1 Administration and Enforcement.** Delete.

### ARTICLE 3

#### General Regulations

(Amd) **P-303.2 Public Systems Available.**

A public water main or public sewer system shall be considered to be available to a building when the building is located within 200 feet (61m) of a public water main or sewer pursuant to Section P-1211.4.

(Amd) **P-308.3 Freezing.**

Water service piping shall be installed not less than 48 inches (1219mm) below grade. Plumbing piping in exterior walls or areas subjected to freezing temperatures shall be protected against freezing by insulation or heat or both.

(Amd) **P-308.4 Depth of Sewer.**

Minimum building sewer depth shall be determined by the regulations as set forth pursuant to Chapters 368a and 446k, C.G.S.

### ARTICLE 10

#### Traps, Interceptors, Separators, and Backwater Valves

(Amd) **P-1002.2 Separators Required.**

At repair garages, gasoline stations with grease racks, grease pits, or work racks, vehicle washing facilities, vehicle undercoating facilities and factories where oily and flammable liquid wastes are produced, separators shall



be installed onto floor drain connections to public sanitary sewer systems. All oil-bearing, grease-bearing, or flammable liquid wastes shall be disposed in accordance with Chapters 445, 446d and 446k, C.G.S.

## ARTICLE 12

### Plumbing Fixtures

#### (Add) P-1203.2.4 Ambulatory Accessible Compartment.

The width of the compartment shall be 36 inches (914mm). The length of the compartment shall be 66 inches (1524mm). The water closet shall be mounted 18 inches (457mm) to the centerline of the fixture from either side. Grab bars not less than 42 inches (1067mm) in length shall be provided on both sides of the compartment, mounted a maximum of 12 inches (102mm) from the rear wall and extending a minimum of 54 inches (1372mm) from the rear wall at a height of 33 inches (838mm) above the floor. Latch and pull for compartment shall be designed to comply with the requirements for operating controls and mechanisms pursuant to ANSI A117.1 listed in Appendix A.

#### (Amd) P-1203.5 Faucet.

The controls to operate a faucet shall be located a maximum of 25 inches (635mm) from the front face of a lavatory, kitchen sink, counter or vanity. At least one lavatory per gender per floor shall have its faucet control located not more than 13 inches (330mm) from the face of the fixture or vanity front. Lavatory faucets on accessible fixtures shall be either single lever or electronic sensor activated. The faucet shall open and close with a maximum force of 5 pounds (22N).

#### (Add) P-1203.8.1 Additional Grab Bar.

A separate, additional swing grab bar shall be provided at a minimum of one (1) accessible toilet location for each sex per floor within any non-exempt building. Such additional grab bar shall be located 18" from the water closet centerline, parallel to and opposite from the required side grab bar, floor or wall mounted, and shall fix or latch firmly in place when in use. The mounting height of the required rear bar may be varied to coordinate with this grab bar. It shall be not less than 24" nor more than 36" in length, and shall be capable of swinging and storing against a wall or partition when not required.

#### Exceptions:

1. Where an ambulatory accessible compartment stall is provided in accordance with P-1203.2.4.
2. Areas in Use Groups E) and I-3 not serving public and administrative functions.

#### (Add) P-1211.4 Connection Required.

Floor drains shall connect to the sanitary sewer system or to an on-site holding tank(s) when the discharge contains oil, grease, sand, or other harmful or hazardous substances. Interceptors and separators shall be provided in accordance to Section P-1002.0 when floor drains connect to the sanitary sewer system, and shall be installed in accordance with the regulations adopted pursuant to Chapters 368a and 446k, C.G.S. Floor drains shall not be connected to a storm sewer, a storm drainage system or a storm building

drain. Floor drains connected to the sanitary sewer shall each have a drain trap having a liquid seal of not less than 2 inches (51mm) nor more than 4 inches (102mm). All floor drains not provided with an automatic means of maintaining the trap seal shall be equipped with an automatic trap primer with an approved backflow preventer.

#### ARTICLE 15

##### Water Supply and Distribution

###### (Amd) P-1503.8 Maximum Flow.

Water outlets and/or adjacent fittings serving showers, lavatories, kitchen sinks and other sinks shall restrict and/or control the flow rate to not more than 2.5 gallons per minute (gpm) (9.5 lpm) at 80 psi (552 kPa). All lavatories in public facilities shall be equipped with self-closing faucets with outlet devices limiting the flow rate to a maximum of 0.5 gpm (1.9 lpm), or self-closing metering valves limiting the flow to 0.25 gpm (0.95 lpm) per cycle. All showers shall be equipped with limiting devices to restrict the flow rate to a maximum of 2.5 gpm (9.5 lpm). All water closets shall use a maximum of 1.6 gallons (6l) of water per flushing cycle. All urinals shall use a maximum of 1 gallon (4l) of water per flushing cycle.

###### (Amd) P-1503.8.1 Mixed Water Temperature Controls.

The temperature of mixed water to all individual plumbing fixtures shall be controlled by a master thermostatic blender, or such fixtures shall be individually regulated by balanced pressure-mixing valves or thermostatic -mixing valves in accordance with ASSE 1016 listed in Appendix A, in addition to the flow rates as required under Section P-1503.7. Water temperature control valves shall be equipped with high-limit stops and adjusted to a maximum hot water delivery setting of 110 degrees F (43 degrees C).

Exceptions: Dishwashers, laundry hose bibbs, commercial or industrial use service sinks or appliances; industrial processes.

#### NFiPA 70 - NATIONAL ELECTRICAL CODE

#### ARTICLE 90

##### Introduction

###### (Amd) 90-4 Enforcement.

The administration of this code shall be in accordance with the provisions of Article 1 of BOCA 1990 National Building Code, and the amendments adopted thereto as the Connecticut State Building Code.

#### CABO ONE AND TWO FAMILY DWELLING CODE

#### CHAPTER ONE

##### Administrative

###### (Amd) R-101 Title.

These provisions shall be known as the One and Two Family Dwelling portion of the Connecticut Building Code, may be cited as such, and will be referred to herein as "this code."

**(Amd) R-103 Scope.**

The provisions of this code shall apply to the construction, prefabrication, alteration, repair, use, occupancy and maintenance of detached one or two family dwellings and their accessory structures not more than three stories in height, unless otherwise indicated in the application for permit furnished pursuant to Section 111.0. This code shall be considered the minimum requirement for residential buildings in the R-4 Use Group classification, which shall also comply with Table 501 of the BOCA National Building Code and Section 513.0, where applicable.

**(Amd) R-104 Authority.**

The administration of this code shall be in accordance with the provisions of Article 1 of BOCA 1990, and the amendments adopted thereto as the Connecticut State Building Code.

**(Del) R-106** Delete Section.

**(Del) R-107** Delete Section.

**(Del) R-108** Delete Section.

**(Del) R-109** Delete Section.

**(Del) R-110** Delete Section.

**(Del) R-111** Delete Section.

**(Del) R-112** Delete Section.

**(Del) R-113** Delete Section.

**(Del) R-114** Delete Section.

**(Del) R-115** Delete Section.

**CHAPTER TWO**

**Building Planning**

**(Amd) Table R-201.2**

**Table R-201.2**

Snow and Wind Loading . . . . .	Town Tables - Appendix E/BOCA
Seismic Conditions . . . . .	2 (no effect)
Weathering Probability . . . . .	Severe
Frost Line Depth . . . . .	42"
Termite Infestation Probability . . . . .	Moderate/Heavy
Decay Probability . . . . .	Slight/Moderate

**(Del) R-201.3** Delete Section.

**(Del) R-201.5** Delete Section.

**(Amd) R-214.1 Handrails.**

Handrails having minimum and maximum heights of 30 inches (762mm) and 38 inches (965mm) respectively, measured vertically from the nosing of the treads, shall be provided on at least one side of stairways of three

or more risers. Stairs 42 inches (1067mm) or more in width shall have handrails on both sides. Spiral stairways and winders shall have the required handrail located on the outside radius. All required handrails shall be continuous for the full length of the stairs. Ends shall be returned or shall terminate in newel posts or safety terminals. The handgrip portion of the handrails shall not be more than 2-5/8 inches (67mm) in cross-sectional dimension, or the shape shall provide an equivalent gripping surface. The handgrip portion of handrails shall have a smooth surface with no sharp corners. Handrails projecting from a wall shall have a space of not less than 1-1/2 inches (38mm) between the wall and handrail.

**(Amd) R-214.2 Guardrails.**

Porches, balconies or raised floor surfaces located more than 30 inches (762mm) above the floor or grade below shall have guardrails not less than 36 inches (914mm) in height. Open sides of stairs with a total rise of more than 30 inches (762mm) above the floor or grade below shall have guardrails not less than 34 inches (864mm) in height measured vertically from the nosing of the treads. Required guardrails on open sides of stairways, raised floor areas, balconies, decks and porches shall have intermediate rails or ornamental closures which will not allow passage of an object 4 inches (102mm) or more in diameter.

**(Amd) R-215.1 Smoke Detectors Required.**

Single station smoke detectors shall be required in all R-4 occupancies in accordance with Chapter 541, Part II, C.G.S. They shall also comply with the applicable provisions of Section 1018.0 of BOCA National Building Code as amended herein for R-3 occupancies for location and power source.

**(Del) R-215.2 Delete Section.**

**CHAPTER 8**

**Roof Coverings**

**(Add) R-801.4 Reroofing.**

All applications of re-roofing over existing roofs shall comply with the requirements of Section 2308.3 of BOCA National Building Code as amended herein.

**CHAPTER 20**

**General Plumbing Requirements and Definitions**

**(Amd) P-2002.1 Site Plan.**

The site plan for a permit shall include information relative to the public water supply and sewer system, if available. When private systems are used, the site plan shall indicate the location of the disposal system.

**CHAPTER 22**

**Plumbing, Drainage, Waste and Vent Systems**

**(Add) P-2201.1 Maximum Flow.**

All fixtures shall comply with the maximum flow rate requirements listed in Section P-1503.8 of the Plumbing Code.

## CHAPTER 25

**Water Service Distribution****(Add) P-2501.5 Commission of Health Regulations.**

All private sewage disposal systems shall be approved in accordance with this code and regulations promulgated pursuant to Chapters 368a and 446k, C.G.S., and the local public health authority.

**(Amd) Part VI Electrical.**

The electrical requirements shall conform to NFPA 70 listed in Section 26.6000. Single family dwellings shall be exempt from electric utility connections when in compliance with Chapter 54I, Part Ia, C.G.S.

**(Amd) Part VII Model Energy Code.**

The energy code requirements shall conform to the BOCA National Building Code listed in Chapter 26.

## CHAPTER 26

**Standards**

**(Amd) S-26.402** NFPA-NDS-1991 National Design Specifications For Wood Construction 1991 and 1991 Supplement; Design Values For Wood Construction.

**(Amd) S-26.601** NFPA-NDS-1991 National Design Specifications For Wood Construction 1991 and 1991 Supplement; Design Values For Wood Construction.

**(Amd) S-26.701** NFPA-NDS-1991 National Design Specifications For Wood Construction 1991 and 1991 Supplement; Design Values For Wood Construction.

**(Amd) S-26.6000** NFPA 70-1993 Electrical Code.

**(Amd) S-26.7000** MODEL ENERGY CODE. BOCA National Building Code/ 1990, Section 3100.0.

## APPENDIX A

**(Del) Appendix A** Delete.

## APPENDIX B

**(Del) Table 6/7A** Delete.

**(Del) Table 6/7B** Delete.

The following Appendix of Related Regulations is to provide guidance in ascertaining applicable building design and construction activities regulated by agencies in Connecticut:

## APPENDIX OF RELATED REGULATIONS

Regulations of the Department of Public Safety and the Regulations of other State Agencies which may or do regulate building design and construction are herein defined. The Agencies of the State which are concerned are:

1. Department of Administrative Services
2. Department of Consumer Protection
  - Occupational & Vocational Licensing
  - Refrigerated Lockers

- Storage of Foods
- Bakeries
- 3. Department of Environmental Protection
  - Air Pollution
  - Soil Waste Management
  - Water Resources
  - Pollution
  - Water Pollution Control
- 4. Department of Health Services
  - Health Care Institutions
  - Licensing and Control
  - Public Health Code
  - Private Sewage Disposal
  - Water Supply
  - Public Toilets
  - Public Laundries
  - Restaurant
  - Supermarkets
  - Food Handling Establishments
  - Swimming Pools
- 5. Department of Housing
  - (State Owned Buildings)
- 6. State Labor Department
  - Protection of Employees
  - Occupational Safety and Health Act
  - OSHA Regulations
- 7. Department of Motor Vehicles
  - Dealers and Repairers
  - Gasoline Station Location
- 8. Department of Public Safety
  - State Building Code
  - State Fire Safety Code
  - Demolition Code
  - Elevators and Escalators
  - Moving Pictures
  - Amusement and Exhibitions
  - Dry Cleaning
  - Flammable Liquids and Gases
  - Explosives
  - Boilers and Space Heaters
  - Gas Piping and Installation
  - Wheelchair Lift Code
- 9. Department of Public Utility Control
- 10. Miscellaneous
  - Tenement House Act
  - Fire Alarms in Schools
  - Sprinklers in dormitories

Note: A section or subsection in the Connecticut Supplement preceded by the word "(Amd)" generally indicates the substitution of this provision for the model code provision, unless otherwise provided.

(Effective June 15, 1994)

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