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Content Updates?Version 2.0

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Chapter 3 Occupancy Classification and Use

User notes:

About this chapter:

Chapter 3 provides the criteria by which buildings and structures are classified into use groups and occupancies. Through the balance of the code, occupancy classification is fundamental in the setting of features of construction; occupant safety requirements, especially building limitations; means of egress; fire protection systems; and interior finishes.

Code development reminder:

Code change proposals to sections preceded by the designation [F] will be considered by the IFC code development committee meeting during the 2024 (Group A) Code Development Cycle. All other code change proposals will be considered by a code development committee meeting during the 2025 (Group B) Code Development Cycle.

Section 301 Scope

CDP

CDP

301.1 General.

CDP

CDP

The provisions of this chapter shall control the classification of all buildings and structures as to occupancy and use. Different classifications of occupancy and use represent varying levels of hazard and risk to building occupants and adjacent properties.

Section 302 Occupancy Classification and Use Designation

302.1 Occupancy classification.

INSIGHTS

INSIGHTS

Occupancy classification is the formal designation of the primary purpose of the building, structure or portion thereof. Structures shall be classified into one or more of the occupancy groups specified in this section based on the nature of the hazards and risks to building occupants generally associated with the intended purpose of the building or structure. An area, room or space that is intended to be occupied at different times for different purposes shall comply with all applicable requirements associated with such potential multipurpose. Structures containing multiple occupancy groups shall comply with Section 508. Where a structure is proposed for a purpose that is not specified in this section, such structure shall be classified in the occupancy it most nearly resembles based on the fire safety and relative hazard. Occupiable roofs shall be classified in the group that the occupancy most nearly resembles, according to the fire safety and relative hazard, and shall comply with Section 503.1.4.

1.
Assembly (see Section 303): Groups A-1, A-2, A-3, A-4 and A-5.

Assembly (see Section 303): Groups A-1, A-2, A-3, A-4 and A-5.

2.
Business (see Section 304): Group B.

Business (see Section 304): Group B.

3.
Educational (see Section 305): Group E.

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Educational (see Section 305): Group E.

4.

Factory and Industrial (see Section 306): Groups F-1 and F-2.

Factory and Industrial (see Section 306): Groups F-1 and F-2.

5.

High Hazard (see Section 307): Groups H-1, H-2, H-3, H-4 and H-5.

High Hazard (see Section 307): Groups H-1, H-2, H-3, H-4 and H-5.

6.

Institutional (see Section 308): Groups I-1, I-2, I-3 and I-4.

Institutional (see Section 308): Groups I-1, I-2, I-3 and I-4.

7.

Mercantile (see Section 309): Group M.

Mercantile (see Section 309): Group M.

8.

Residential (see Section 310): Groups R-1, R-2, R-3 and R-4.

Residential (see Section 310): Groups R-1, R-2, R-3 and R-4.

9.

Storage (see Section 311): Groups S-1 and S-2.

Storage (see Section 311): Groups S-1 and S-2.

10.

Utility and Miscellaneous (see Section 312): Group U.

Utility and Miscellaneous (see Section 312): Group U.

302.2 Use designation.

Occupancy groups contain subordinate uses having similar hazards and risks to building occupants. Uses include, but are not limited to, those functional designations specified within the occupancy group descriptions in Section 302.1. Certain uses require specific limitations and controls in accordance with the provisions of Chapter 4 and elsewhere in this code.

Section 303 Assembly Group A

CDP

CDP

303.1 Assembly Group A.

INSIGHTS

INSIGHTS

Assembly Group A occupancy includes, among others, the use of a building or structure, or a portion thereof, for the gathering of persons for purposes such as civic, social or religious functions; recreation, food or drink consumption or awaiting transportation.

303.1.1 Small buildings and tenant spaces.

A building or tenant space used for assembly purposes with an occupant load of less than 50 persons shall be classified as a Group B occupancy.

303.1.2 Small assembly spaces.

CDP

CDP

The following rooms and spaces shall not be classified as Assembly occupancies:

1.
A room or space used for assembly purposes with an occupant load of less than 50 persons and accessory to another occupancy shall be classified as a Group B occupancy or as part of that occupancy.
A room or space used for assembly purposes with an occupant load of less than 50 persons and accessory to another occupancy shall be classified as a Group B occupancy or as part of that occupancy.
2.
A room or space used for assembly purposes that is less than 750 square feet (70 m²) in area and accessory to another occupancy shall be classified as a Group B occupancy or as part of that occupancy.
A room or space used for assembly purposes that is less than 750 square feet (70 m²) in area and accessory to another occupancy shall be classified as a Group B occupancy or as part of that occupancy.

303.1.3 Associated with Group E occupancies.

INSIGHTS

INSIGHTS

A room or space used for assembly purposes that is associated with a Group E occupancy is not considered

a separate occupancy.

303.1.4 Accessory to places of religious worship.

Accessory religious educational rooms and religious auditoriums with occupant loads of less than 100 per room or space are not considered separate occupancies.

303.1.5 Special amusement areas.

Special amusement areas shall comply with Section 411.

303.2 Assembly Group A-1.

Group A-1 occupancy includes assembly uses, usually with fixed seating, intended for the production and viewing of the performing arts or motion pictures, including but not limited to:

Motion picture theaters

Motion picture theaters

Symphony and concert halls

Symphony and concert halls

Television and radio studios admitting an audience

Television and radio studios admitting an audience

Theaters

Theaters

303.3 Assembly Group A-2.

INSIGHTS

INSIGHTS

Group A-2 occupancy includes assembly uses intended for food and/or drink consumption, including but not limited to:

Banquet halls

Banquet halls

Casinos (gaming areas)

Casinos (gaming areas)

Nightclubs

Nightclubs

Restaurants, cafeterias and similar dining facilities (including associated commercial kitchens)

Restaurants, cafeterias and similar dining facilities (including associated commercial kitchens)

Taverns and bars

Taverns and bars

303.4 Assembly Group A-3.

CDP

INSIGHTS

CDP

INSIGHTS

Group A-3 occupancy includes assembly uses intended for worship, recreation or amusement and other assembly uses not classified elsewhere in Group A, including but not limited to:

Amusement arcades

Amusement arcades

Art galleries

Art galleries

Bowling alleys

Bowling alleys

Community halls

Community halls

Courtrooms

Courtrooms

Dance halls (not including food or drink consumption)

Dance halls (not including food or drink consumption)

Exhibition halls

Exhibition halls

Funeral parlors

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Funeral parlors

Greenhouses for the conservation and exhibition of plants that provide public access

Greenhouses for the conservation and exhibition of plants that provide public access

Gymnasiums (without spectator seating)

Gymnasiums (without spectator seating)

Indoor swimming pools (without spectator seating)

Indoor swimming pools (without spectator seating)

Indoor tennis courts (without spectator seating)

Indoor tennis courts (without spectator seating)

Lecture halls

Lecture halls

Libraries

Libraries

Museums

Museums

Places of religious worship

Places of religious worship

Pool and billiard parlors

Pool and billiard parlors

Waiting areas in transportation terminals

Waiting areas in transportation terminals

303.5 Assembly Group A-4.

Group A-4 occupancy includes assembly uses intended for viewing of indoor sporting events and activities with spectator seating, including but not limited to:

Arenas

Arenas

Skating rinks

Skating rinks

Swimming pools

Swimming pools

Tennis courts

Tennis courts

303.6 Assembly Group A-5.

Group A-5 occupancy includes assembly uses intended for participation in or viewing outdoor activities, including but not limited to:

Amusement park structures

Amusement park structures

Bleachers

Bleachers

Grandstands

Grandstands

Stadiums

Stadiums

Section 304 Business Group B

CDP

CDP

304.1 Business Group B.

CDP

INSIGHTS

CDP

INSIGHTS

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

Airport traffic control towers

Airport traffic control towers

Ambulatory care facilities

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Ambulatory care facilities

Animal hospitals, kennels and pounds

Animal hospitals, kennels and pounds

Banks

Banks

Barber and beauty shops

Barber and beauty shops

Car wash

Car wash

Civic administration

Civic administration

Clinic, outpatient

Clinic, outpatient

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

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

Educational occupancies for students above the 12th grade including higher education laboratories

Educational occupancies for students above the 12th grade including higher education laboratories

Electronic data entry

Electronic data entry

Food processing establishments and commercial kitchens not associated with restaurants, cafeterias and similar dining facilities not more than 2,500 square feet (232 m²) in area

Food processing establishments and commercial kitchens not associated with restaurants, cafeterias and similar dining facilities not more than 2,500 square feet (232 m²) in area

Laboratories: testing and research

Laboratories: testing and research

Lithium-ion or lithium metal battery testing, research and development

Lithium-ion or lithium metal battery testing, research and development

Motor vehicle showrooms

Motor vehicle showrooms

Post offices

Post offices

Print shops

Print shops

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Professional services (architects, attorneys, dentists, physicians, engineers, etc.)

Professional services (architects, attorneys, dentists, physicians, engineers, etc.)

Radio and television stations

Radio and television stations

Telephone exchanges

Telephone exchanges

Training and skill development not in a school or academic program (this shall include, but not be limited to, tutoring centers, martial arts studios, gymnastics and similar uses regardless of the ages served, and where not classified as a Group A occupancy)

Training and skill development not in a school or academic program (this shall include, but not be limited to, tutoring centers, martial arts studios, gymnastics and similar uses regardless of the ages served, and where not classified as a Group A occupancy)

304.2 Airport traffic control towers.

CDP

CDP

Airport traffic control towers shall comply with Section 412.2.

304.3 Ambulatory care facilities.

CDP

CDP

Ambulatory care facilities shall comply with Section 422.

304.4 Higher education laboratories.

CDP

CDP

Higher education laboratories shall comply with Section 428.

Section 305 Educational Group E

CDP

CDP

305.1 Educational Group E.

INSIGHTS

INSIGHTS

Educational Group E occupancy includes, among others, the use of a building or structure, or a portion thereof, by six or more persons at any one time for educational purposes through the 12th grade.

305.1.1 Accessory to places of religious worship.

Religious educational rooms and religious auditoriums, which are accessory to places of religious worship in accordance with Section 303.1.4 and have occupant loads of less than 100 per room or space, shall be classified as Group A-3 occupancies.

305.2 Group E, day care facilities.

CDP

INSIGHTS

CDP

INSIGHTS

This group includes buildings and structures or portions thereof occupied by more than five children older than 2 1/2 years of age who receive educational, supervision or personal care services for fewer than 24 hours per day.

305.2.1 Within places of religious worship.

CDP

CDP

Rooms and spaces within places of religious worship providing such day care during religious functions shall be classified as part of the primary occupancy.

305.2.2 Five or fewer children.

CDP

CDP

A facility having five or fewer children receiving such day care shall be classified as part of the primary occupancy.

305.2.3 Five or fewer children in a dwelling unit.

CDP

CDP

A facility such as the above within a dwelling unit and having five or fewer children receiving such day care shall be classified as a Group R-3 occupancy or shall comply with the International Residential Code.

305.3 Storm shelters in Group E occupancies.

Storm shelters shall be provided for Group E occupancies where required by Section 423.5.

Section 306 Factory Group F

CDP

INSIGHTS

CDP

INSIGHTS

306.1 Factory Industrial Group F.

INSIGHTS

INSIGHTS

Factory Industrial Group F occupancy includes, among others, the use of a building or structure, or a portion thereof, for assembling, disassembling, fabricating, finishing, manufacturing, packaging, repair or processing operations that are not classified as a Group H hazardous or Group S storage occupancy.

306.2 Moderate-hazard factory industrial, Group F-1.

INSIGHTS

INSIGHTS

Factory industrial uses that are not classified as Factory Industrial F-2 Low Hazard shall be classified as F-1 Moderate Hazard and shall include, but not be limited to, the following:

Aircraft (manufacturing, not to include repair)

Aircraft (manufacturing, not to include repair)

Appliances

Appliances

Athletic equipment

Athletic equipment

Automobiles and other motor vehicles

Automobiles and other motor vehicles

Bakeries

Bakeries

Beverages: over 20 percent alcohol content

Beverages: over 20 percent alcohol content

Bicycles

Bicycles

Boats

Boats

Brooms or brushes

Brooms or brushes

Business machines

Business machines

Cameras and photo equipment

Cameras and photo equipment

Canvas or similar fabric

Canvas or similar fabric

Carpets and rugs (includes cleaning)

Carpets and rugs (includes cleaning)

Clothing

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Clothing

Construction and agricultural machinery

Construction and agricultural machinery

Disinfectants

Disinfectants

Dry cleaning and dyeing

Dry cleaning and dyeing

Electric generation plants

Electric generation plants

Electronics

Electronics

Energy storage systems (ESS) in dedicated use buildings

Energy storage systems (ESS) in dedicated use buildings

Energy storage systems (ESS) and equipment containing lithium-ion or lithium metal batteries

Energy storage systems (ESS) and equipment containing lithium-ion or lithium metal batteries

Engines (including rebuilding)

Engines (including rebuilding)

Food processing establishments and commercial kitchens not associated with restaurants, cafeterias and similar dining facilities more than 2,500 square feet (232 m2) in area

Food processing establishments and commercial kitchens not associated with restaurants, cafeterias and similar dining facilities more than 2,500 square feet (232 m2) in area

Furniture

Furniture

Hemp products

Hemp products

Jute products

Jute products

Laundries

Laundries

Leather products

Leather products

Lithium-ion batteries

Lithium-ion batteries

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Machinery

Machinery

Metals

Metals

Millwork (sash and door)

Millwork (sash and door)

Motion pictures and television filming (without spectators)

Motion pictures and television filming (without spectators)

Musical instruments

Musical instruments

Optical goods

Optical goods

Paper mills or products

Paper mills or products

Photographic film

Photographic film

Plastic products

Plastic products

Printing or publishing

Printing or publishing

Recreational vehicles

Recreational vehicles

Refuse incineration

Refuse incineration

Shoes

Shoes

Soaps and detergents

Soaps and detergents

Textiles

Textiles

Tobacco

Tobacco

Trailers

Trailers

Upholstering

Upholstering

Vehicles powered by lithium-ion or lithium metal batteries

Vehicles powered by lithium-ion or lithium metal batteries

Water/sewer treatment facilities

Water/sewer treatment facilities

Wood; distillation

Wood; distillation

Woodworking (cabinet)

Woodworking (cabinet)

306.2.1 Aircraft manufacturing facilities.

Aircraft manufacturing facilities shall comply with Section 412.6.

306.3 Low-hazard factory industrial, Group F-2.

CDP

INSIGHTS

CDP

INSIGHTS

Factory industrial uses that involve the fabrication or manufacturing of noncombustible materials that during finishing, packing or processing do not involve a significant fire hazard shall be classified as Group F-2 occupancies and shall include, but not be limited to, the following:

Beverages: up to and including 20 percent alcohol content

Beverages: up to and including 20 percent alcohol content

Brick and masonry

Brick and masonry

Ceramic products

Ceramic products

Foundries

Foundries

Glass products

Glass products

Gypsum

Gypsum

Ice

Ice

Metal products (fabrication and assembly)

Metal products (fabrication and assembly)

Section 307 High-Hazard Group H

[F] 307.1 High-hazard Group H.

CDP

INSIGHTS

CDP

INSIGHTS

High-hazard Group H occupancy includes, among others, the use of a building or structure, or a portion thereof, that involves the manufacturing, processing, generation or storage of materials that constitute a physical or health hazard in quantities in excess of those allowed in control areas complying with Section 414, based on the maximum allowable quantity limits for control areas set forth in Tables 307.1(1) and 307.1(2). Hazardous occupancies are classified in Groups H-1, H-2, H-3, H-4 and H-5 and shall be in accordance with this section, the requirements of Section 415 and the International Fire Code. Hazardous materials stored or used on top of roofs or canopies shall be classified as rooftop storage or use and shall comply with the International Fire Code.

MATERIAL

CLASS

GROUP WHEN THE MAXIMUM ALLOWABLE QUANTITY IS EXCEEDED

STORAGE^b

USE-CLOSED SYSTEMS^b

USE-OPEN SYSTEMS^b

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Solid pounds (cubic feet)

Liquid gallons (pounds)

Gas (cubic feet at NTP)

Solid pounds (cubic feet)

Liquid gallons (pounds)

Gas (cubic feet at NTP)

Solid pounds (cubic feet)

Liquid gallons (pounds)

Combustible dust

NA

H-2

See Note o

NA

NA

See Note o

NA

NA

See Note o

NA

Combustible fiber o

Loose

H-3

(100)

NA

NA

(100)

NA

NA

(20)

NA

Baled

(1,000)

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(1,000)

(200)

Combustible liquidn

II

H-2 or H-3

NA

120d, e

NA

NA

120d

NA

NA

30d

IIIA

H-2 or H-3

330d, e

330d

80d

IIIB

NA

13,200e, f

13,200f

3,300f

Cryogenic flammable

NA

H-2

NA

45d

NA

NA

45d

NA

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NA

10d

Cryogenic inert

NA

NA

NA

NA

NL

NA

NA

NL

NA

NA

Cryogenic oxidizing

NA

H-3

NA

45d

NA

NA

45d

NA

NA

10d

Explosives

Division 1.1

H-1

1e, g

(1)e, g

NA

0.25g

(0.25)g

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NA

0.25g

(0.25)g

Division 1.2

H-1

1e, g

(1)e, g

0.25g

(0.25)g

0.25g

(0.25)g

Division 1.3

H-1 or H-2

5e, g

(5)e, g

1g

(1)g

1g

(1)g

Division 1.4

H-3

50e, g

(50)e, g

50g

(50)g

NA

NA

Division 1.4G

H-3

125e, k

NA

NA

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NA

NA

NA

Division 1.5

H-1

1e, g

(1)e, g

0.25g

(0.25)g

0.25g

(0.25)g

Division 1.6

H-1

1e, g

NA

NA

NA

NA

NA

Flammable gas

Gaseous

H-2

NA

NA

NA

NA

NA

NA

1A and 1B (High BV)p

1,000d, e

1,000d, e

1B (Low BV)p

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162,500d, e

162,500d, e

Liquefied

NA

NA

1A and 1B (High BV)p

(150)d, e

(150)d, e

1B (Low BV)p

(10,000)d, e

(10,000)d, e

Flammable liquid n

IA

H-2 or H-3

NA

30d, e

NA

NA

30d

NA

NA

10d

IB and IC

120d, e

120d

30d

Flammable liquid, combination (IA, IB, IC)n

NA

H-2 or H-3

NA

120d, e, h

NA

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NA

120d, h

NA

NA

30d, h

Flammable solid

NA

H-3

125d, e

NA

NA

125d

NA

NA

25d

NA

Inert gas

Gaseous

NA

NA

NA

NL

NA

NA

NL

NA

NA

Liquefied

NA

NA

NA

NL

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NA

NA

NL

NA

NA

Organic peroxide

UD

H-1

1e, g

(1)e, g

NA

0.25g

(0.25)g

NA

0.25g

(0.25)g

I

H-2

5d, e

(5)d, e

1d

(1)d

1d

(1)d

II

H-3

50d, e

(50)d, e

50d

(50)d

10d

(10)d

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III

H-3

125d, e

(125)d, e

125d

(125)d

25d

(25)d

IV

NA

NL

NL

NL

NL

NL

NL

V

NA

NL

NL

NL

NL

NL

NL

Oxidizer

4

H-1

1g

(1)e, g

NA

0.25g

(0.25)g

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NA

0.25g

(0.25)g

3j

H-2 or H-3

10d, e

(10)d, e

2d

(2)d

2d

(2)d

2

H-3

250d, e

(250)d, e

250d

(250)d

50d

(50)d

1

NA

4,000e, f

(4,000)e, f

4,000f

(4,000)f

1,000f

(1,000)f

Oxidizing gas

Gaseous

H-3

NA

NA

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1,500d, e

NA

NA

1,500d,e

NA

NA

Liquefied

(150)d, e

NA

(150)d,e

NA

Pyrophoric

NA

H-2

4e, g

(4)e, g

50e, g

1g

(1)g

10e, g

0

0

Unstable (reactive)

4

H-1

1e, g

(1)e, g

10e, g

0.25g

(0.25)g

2e, g

0.25g

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(0.25)g

3

H-1 or H-2

5d, e

(5)d, e

50d, e

1d

(1)d

10d, e

1d

(1)d

2

H-3

50d, e

(50)d, e

750d, e

50d

(50)d

750d, e

10d

(10)d

1

NA

NL

NL

NL

NL

NL

NL

NL

NL

Water reactive

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3

H-2

5d, e

(5)d, e

NA

5d

(5)d

NA

1d

(1)d

2

H-3

50d, e

(50)d, e

50d

(50)d

10d

(10)d

1

NA

NL

NL

NL

NL

NL

NL

For SI: 1 cubic foot = 0.028 m³, 1 pound = 0.454 kg, 1 gallon = 3.785 L.

NL = Not Limited; NA = Not Applicable; UD = Unclassified Detonable.

a.

For use of control areas, see Section 414.2.

For use of control areas, see Section 414.2.

b.

The aggregate quantity in use and storage shall not exceed the maximum allowable quantity for storage,

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including applicable increases.

The aggregate quantity in use and storage shall not exceed the maximum allowable quantity for storage, including applicable increases.

c.

For hazardous materials in Group B higher education laboratory occupancies, see Section 428 of this code and Chapter 38 of the International Fire Code.

For hazardous materials in Group B higher education laboratory occupancies, see Section 428 of this code and Chapter 38 of the International Fire Code.

d.

Maximum allowable quantities shall be increased 100 percent in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1. Where Note e also applies, the increase for both notes shall be applied accumulatively.

Maximum allowable quantities shall be increased 100 percent in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1. Where Note e also applies, the increase for both notes shall be applied accumulatively.

e.

Maximum allowable quantities shall be increased 100 percent when stored in approved storage cabinets, day boxes, gas cabinets, gas rooms or exhausted enclosures or in listed safety cans in accordance with Section 5003.9.10 of the International Fire Code. Where Note d also applies, the increase for both notes shall be applied accumulatively.

Maximum allowable quantities shall be increased 100 percent when stored in approved storage cabinets, day boxes, gas cabinets, gas rooms or exhausted enclosures or in listed safety cans in accordance with Section 5003.9.10 of the International Fire Code. Where Note d also applies, the increase for both notes shall be applied accumulatively.

f.

Quantities shall not be limited in a building equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

Quantities shall not be limited in a building equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

g.

Allowed only in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

Allowed only in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

h.

Containing not more than the maximum allowable quantity per control area of Class IA, IB or IC flammable liquids.

Containing not more than the maximum allowable quantity per control area of Class IA, IB or IC flammable liquids.

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i.

Quantities in parentheses indicate quantity units in parentheses at the head of each column.

Quantities in parentheses indicate quantity units in parentheses at the head of each column.

j.

A maximum quantity of 220 pounds of solid or 22 gallons of liquid Class 3 oxidizers is allowed when such materials are necessary for maintenance purposes, operation or sanitation of equipment when the storage containers and the manner of storage are approved.

A maximum quantity of 220 pounds of solid or 22 gallons of liquid Class 3 oxidizers is allowed when such materials are necessary for maintenance purposes, operation or sanitation of equipment when the storage containers and the manner of storage are approved.

k.

Net weight of the pyrotechnic composition of the fireworks. Where the net weight of the pyrotechnic composition of the fireworks is not known, 25 percent of the gross weight of the fireworks, including packaging, shall be used.

Net weight of the pyrotechnic composition of the fireworks. Where the net weight of the pyrotechnic composition of the fireworks is not known, 25 percent of the gross weight of the fireworks, including packaging, shall be used.

l.

For gallons of liquids, divide the amount in pounds by 10 in accordance with Section 5003.1.2 of the International Fire Code.

For gallons of liquids, divide the amount in pounds by 10 in accordance with Section 5003.1.2 of the International Fire Code.

m.

For oxidizers, unstable (reactive) materials, and water-reactive materials stored or displayed in Group M occupancies or stored in Group S occupancies, see Section 414.2.5.1.

For oxidizers, unstable (reactive) materials, and water-reactive materials stored or displayed in Group M occupancies or stored in Group S occupancies, see Section 414.2.5.1.

n.

For flammable and combustible liquid storage in Group M occupancy wholesale and retail sales uses, see Section 414.2.5.2.

For flammable and combustible liquid storage in Group M occupancy wholesale and retail sales uses, see Section 414.2.5.2.

o.

Where manufactured, generated or used in such a manner that the concentration and conditions create a fire or explosion hazard based on information prepared in accordance with Section 414.1.3.

Where manufactured, generated or used in such a manner that the concentration and conditions create a fire or explosion hazard based on information prepared in accordance with Section 414.1.3.

p.

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?High BV? Category 1B flammable gas has a burning velocity greater than 3.9 inches per second (10 cm/s).

"Low BV" Category 1B flammable gas has a burning velocity of 3.9 inches per second (10 cm/s) or less.

?High BV? Category 1B flammable gas has a burning velocity greater than 3.9 inches per second (10 cm/s).

"Low BV" Category 1B flammable gas has a burning velocity of 3.9 inches per second (10 cm/s) or less.

MATERIAL

STORAGE^b

USE-CLOSED SYSTEMS^b

USE-OPEN SYSTEMS^b

Solid pounds^{d, e, f}

Liquid gallons (pounds)^{d, e, f}

Gas cubic feet at NTP (pounds)^d

Solid pounds^d

Liquid gallons (pounds)^d

Gas cubic feet at NTP (pounds)^d

Solid pounds^d

Liquid gallons (pounds)^d

Corrosives

5,000

500

Gaseous 810^e

5,000

500

Gaseous 810^e

1,000

100

Liquefied (150)

Liquefied (150)

Highly Toxic

10

(10)

Gaseous 20^g

10

(10)

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Gaseous 20g

3

(3)

Liquefied (4)g

Liquefied (4)g

Toxic

500

(500)

Gaseous 810e

500

(500)

Gaseous 810e

125

(125)

Liquefied (150)e

Liquefied (150)e

For SI: 1 cubic foot = 0.028 m³, 1 pound = 0.454 kg, 1 gallon = 3.785 L.

a.

For use of control areas, see Section 414.2.

For use of control areas, see Section 414.2.

b.

The aggregate quantity in use and storage shall not exceed the maximum allowable quantity for storage, including applicable increases.

The aggregate quantity in use and storage shall not exceed the maximum allowable quantity for storage, including applicable increases.

c.

For hazardous materials in Group B higher education laboratory occupancies, see Section 428 of this code and Chapter 38 of the International Fire Code.

For hazardous materials in Group B higher education laboratory occupancies, see Section 428 of this code and Chapter 38 of the International Fire Code.

d.

Maximum allowable quantities shall be increased 100 percent in buildings equipped throughout with an approved automatic sprinkler system in accordance with Section 903.3.1.1. Where Note e also applies, the increase for both notes shall be applied accumulatively.

Maximum allowable quantities shall be increased 100 percent in buildings equipped throughout with an

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approved automatic sprinkler system in accordance with Section 903.3.1.1. Where Note e also applies, the increase for both notes shall be applied accumulatively.

e.

Maximum allowable quantities shall be increased 100 percent where stored in approved storage cabinets, gas cabinets or exhausted enclosures as specified in the International Fire Code. Where Note d also applies, the increase for both notes shall be applied accumulatively.

Maximum allowable quantities shall be increased 100 percent where stored in approved storage cabinets, gas cabinets or exhausted enclosures as specified in the International Fire Code. Where Note d also applies, the increase for both notes shall be applied accumulatively.

f.

For corrosive, highly toxic and toxic materials stored or displayed in Group M occupancies or stored in Group S occupancies, see Section 414.2.5.1.

For corrosive, highly toxic and toxic materials stored or displayed in Group M occupancies or stored in Group S occupancies, see Section 414.2.5.1.

g.

Allowed only where stored in approved exhausted gas cabinets or exhausted enclosures as specified in the International Fire Code.

Allowed only where stored in approved exhausted gas cabinets or exhausted enclosures as specified in the International Fire Code.

h.

Quantities in parentheses indicate quantity units in parentheses at the head of each column.

Quantities in parentheses indicate quantity units in parentheses at the head of each column.

i.

For gallons of liquids, divide the amount in pounds by 10 in accordance with Section 5003.1.2 of the International Fire Code.

For gallons of liquids, divide the amount in pounds by 10 in accordance with Section 5003.1.2 of the International Fire Code.

[F] 307.1.1 Occupancy Exemptions.

CDP

INSIGHTS

CDP

INSIGHTS

Storage, use and handling of hazardous materials in accordance with Table 307.1.1 shall not be counted as contributing to Maximum Allowable Quantities and shall not cause classification of an occupancy to be Group H. Such storage, use and handling shall comply with applicable provisions of the International Fire Code.

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MATERIAL CLASSIFICATION

OCCUPANCY OR APPLICATION

EXEMPTION

Combustible fiber

Baled cotton

Densely packed baled cotton shall not be classified as combustible fiber, provided that the bales comply with the packing requirements of ISO 8115.

Corrosive

Building materials

The quantity of commonly used building materials that are classified as corrosive materials is not limited.

Personal and household products

The quantity of personal and household products that are classified as corrosive materials is not limited in retail displays, provided that the products are in original packaging.

Retail and wholesale sales occupancies

The quantity of medicines, foodstuffs or consumer products, and cosmetics containing not more than 50 percent by volume of water-miscible liquids, with the remainder of the solutions not being flammable, is not limited. To qualify for this allowance, such materials shall be packaged in individual containers not exceeding 1.3 gallons.

Explosives

Groups B, F, M and S

Storage of special industrial explosive devices is not limited.

Groups M and R-3

Storage of black powder, smokeless propellant and small arms primers is not limited.

Flammable and combustible liquids and gases

Aerosols

Buildings and structures occupied for the storage of aerosol products, aerosol cooking spray products, or plastic aerosol 3 products shall be classified as Group S-1.

Alcoholic beverages

The quantity of alcoholic beverages in liquor stores and distributors without bulk storage is not limited.

The quantity of alcoholic beverages in distilling or brewing of beverages is not limited.

The storage quantity of beer, distilled spirits and wines in barrels and casks is not limited.

The quantity of alcoholic beverages in retail and wholesale sales occupancies is not limited. To qualify for this allowance, beverages shall be packaged in individual containers not exceeding 1.3 gallons.

Cleaning establishments with combustible liquid solvents

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The quantity of combustible liquid solvents used in closed systems and having a flash point at or above 140°F is not limited. To qualify for this allowance, equipment shall be listed by an approved testing agency and the occupancy shall be separated from all other areas of the building by 1-hour fire barriers constructed in accordance with Section 707 or 1-hour horizontal assemblies constructed in accordance with Section 711, or both

The quantity of combustible liquid solvents having a flash point at or above 200°F is not limited.

Closed piping systems

The quantity of flammable and combustible liquids and gases utilized for the operation of machinery or equipment is not limited.

Fuel

The quantity of liquid or gaseous fuel in fuel tanks on vehicles or motorized equipment is not limited.

The quantity of gaseous fuels in piping systems and fixed appliances regulated by the International Fuel Gas Code is not limited.

The quantity of liquid fuels in piping systems and fixed appliances regulated by the International Mechanical Code is not limited.

Flammable finishing operations using flammable and combustible liquids

Buildings and structures occupied for the application of flammable finishes shall comply with Section 416.

Fuel oil

The quantity of fuel oil storage complying with Section 605.4.2 of the International Fire Code is not limited.

Hand sanitizer

The quantity of alcohol-based hand rubs (ABHR) classified as Class I or II liquids in dispensers installed in accordance with Sections 5705.5 and 5705.5.1 of the International Fire Code is not limited. The location of the ABHR dispensers shall be provided in the construction documents.

Retail and wholesale sales occupancies with flammable and combustible liquids

The quantity of medicines, foodstuffs or consumer products, and cosmetics containing not more than 50 percent by volume of water-miscible liquids, with the remainder of the solutions not being flammable, is not limited. To qualify for this allowance, such materials shall be packaged in individual containers not exceeding 1.3 gallons.

Highly toxic and toxic materials

Retail and wholesale sales occupancies

The quantity of medicines, foodstuffs or consumer products, and cosmetics containing not more than 50 percent by volume of water-miscible liquids, with the remainder of the solutions not being flammable, is not limited. To qualify for this allowance, such materials shall be packaged in individual containers not exceeding 1.3 gallons.

Any

Agricultural materials

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The quantity of agricultural materials stored or utilized for agricultural purposes on the premises is not limited.

Energy storage

The quantity of hazardous materials in stationary storage battery systems is not limited.

The quantity of hazardous materials in stationary fuel cell power systems is not limited.

The quantity of hazardous materials in capacitor energy storage systems is not limited.

Refrigeration Systems

The quantity of refrigerants in refrigeration systems is not limited.

For SI: 1 gallon = 3.785L, °C = (°F - 32)/1.8.

a.

Exempted materials and conditions listed in this table are required to comply with applicable provisions of the International Fire Code.

Exempted materials and conditions listed in this table are required to comply with applicable provisions of the International Fire Code.

[F] 307.2 Hazardous materials.

Hazardous materials in any quantity shall conform to the requirements of this code, including Section 414, and the International Fire Code.

[F] 307.3 High-hazard Group H-1.

CDP

INSIGHTS

CDP

INSIGHTS

Buildings and structures containing materials that pose a detonation hazard shall be classified as Group H-1. Such materials shall include, but not be limited to, the following:

Detonable pyrophoric materials

Detonable pyrophoric materials

Explosives:

Division 1.1

Division 1.2

Division 1.3

Division 1.4

Division 1.5

Division 1.6

Explosives:

Division 1.1

Division 1.1

Division 1.2

Division 1.2

Division 1.3

Division 1.3

Division 1.4

Division 1.4

Division 1.5

Division 1.5

Division 1.6

Division 1.6

Organic peroxides, unclassified detonable

Organic peroxides, unclassified detonable

Oxidizers, Class 4

Oxidizers, Class 4

Unstable (reactive) materials, Class 3 detonable and Class 4

Unstable (reactive) materials, Class 3 detonable and Class 4

[F] 307.3.1 Occupancies containing explosives not classified as H-1.

INSIGHTS

INSIGHTS

The following occupancies containing explosive materials shall be classified as follows:

1.

Division 1.3 explosive materials that are used and maintained in a form where either confinement or configuration will not elevate the hazard from a mass fire to mass explosion hazard shall be allowed in Group H-2 occupancies.

Division 1.3 explosive materials that are used and maintained in a form where either confinement or configuration will not elevate the hazard from a mass fire to mass explosion hazard shall be allowed in Group H-2 occupancies.

2.
Division 1.4 explosive materials shall be allowed in Group H-3 occupancies.
Division 1.4 explosive materials shall be allowed in Group H-3 occupancies.

3.
Articles, including articles packaged for shipment, that are not regulated as a Division 1.4 explosive under Bureau of Alcohol, Tobacco, Firearms and Explosives regulations, or unpackaged articles used in process operations that do not propagate a detonation or deflagration between articles shall be allowed in Group H-3 occupancies.

Articles, including articles packaged for shipment, that are not regulated as a Division 1.4 explosive under Bureau of Alcohol, Tobacco, Firearms and Explosives regulations, or unpackaged articles used in process operations that do not propagate a detonation or deflagration between articles shall be allowed in Group H-3 occupancies.

[F] 307.4 High-hazard Group H-2.

INSIGHTS

INSIGHTS

Buildings and structures containing materials that pose a deflagration hazard or a hazard from accelerated burning shall be classified as Group H-2. Such materials shall include, but not be limited to, the following:

Class I, II or IIIA flammable or combustible liquids that are used or stored in normally open containers or systems, or in closed containers or systems pressurized at more than 15 pounds per square inch gauge (103.4 kPa).

Class I, II or IIIA flammable or combustible liquids that are used or stored in normally open containers or systems, or in closed containers or systems pressurized at more than 15 pounds per square inch gauge (103.4 kPa).

Combustible dusts where manufactured, generated or used in such a manner that the concentration and conditions create a fire or explosion hazard based on information prepared in accordance with Section 414.1.3.

Combustible dusts where manufactured, generated or used in such a manner that the concentration and conditions create a fire or explosion hazard based on information prepared in accordance with Section 414.1.3.

Cryogenic fluids, flammable.

Cryogenic fluids, flammable.

Category 1A flammable gases.

Category 1A flammable gases.

Category 1B flammable gases having a burning velocity greater than 3.9 inches per second (10 cm/s)

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Category 1B flammable gases having a burning velocity greater than 3.9 inches per second (10 cm/s)

Organic peroxides, Class I.

Organic peroxides, Class I.

Oxidizers, Class 3, that are used or stored in normally open containers or systems, or in closed containers or systems pressurized at more than 15 pounds per square inch gauge (103 kPa).

Oxidizers, Class 3, that are used or stored in normally open containers or systems, or in closed containers or systems pressurized at more than 15 pounds per square inch gauge (103 kPa).

Pyrophoric liquids, solids and gases, nondetonable.

Pyrophoric liquids, solids and gases, nondetonable.

Unstable (reactive) materials, Class 3, nondetonable.

Unstable (reactive) materials, Class 3, nondetonable.

Water-reactive materials, Class 3.

Water-reactive materials, Class 3.

[F] 307.5 High-hazard Group H-3.

CDP

INSIGHTS

CDP

INSIGHTS

Buildings and structures containing materials that readily support combustion or that pose a physical hazard shall be classified as Group H-3. Such materials shall include, but not be limited to, the following:

Class I, II or IIIA flammable or combustible liquids that are used or stored in normally closed containers or systems pressurized at 15 pounds per square inch gauge (103.4 kPa) or less

Class I, II or IIIA flammable or combustible liquids that are used or stored in normally closed containers or systems pressurized at 15 pounds per square inch gauge (103.4 kPa) or less

Combustible fibers, other than densely packed baled cotton, where manufactured, generated or used in such a manner that the concentration and conditions create a fire or explosion hazard based on information prepared in accordance with Section 414.1.3

Combustible fibers, other than densely packed baled cotton, where manufactured, generated or used in such a manner that the concentration and conditions create a fire or explosion hazard based on information prepared in accordance with Section 414.1.3

Consumer fireworks, 1.4G (Class C, Common)

Consumer fireworks, 1.4G (Class C, Common)

Cryogenic fluids, oxidizing

Cryogenic fluids, oxidizing

Category 1B flammable gases having a burning velocity of 3.9 inches per second (10 cm/s) or less

Category 1B flammable gases having a burning velocity of 3.9 inches per second (10 cm/s) or less

Flammable solids

Flammable solids

Organic peroxides, Class II and III

Organic peroxides, Class II and III

Oxidizers, Class 2

Oxidizers, Class 2

Oxidizers, Class 3, that are used or stored in normally closed containers or systems pressurized at 15 pounds per square inch gauge (103 kPa) or less

Oxidizers, Class 3, that are used or stored in normally closed containers or systems pressurized at 15 pounds per square inch gauge (103 kPa) or less

Oxidizing gases

Oxidizing gases

Unstable (reactive) materials, Class 2

Unstable (reactive) materials, Class 2

Water-reactive materials, Class 2

Water-reactive materials, Class 2

[F] 307.6 High-hazard Group H-4.

INSIGHTS

INSIGHTS

Buildings and structures containing materials that are health hazards shall be classified as Group H-4. Such materials shall include, but not be limited to, the following:

Corrosives

Corrosives

Highly toxic materials

Highly toxic materials

Toxic materials

Toxic materials

[F] 307.7 High-hazard Group H-5.

INSIGHTS

INSIGHTS

Semiconductor fabrication facilities and comparable research and development areas in which hazardous production materials (HPM) are used and the aggregate quantity of materials is in excess of those specified in Tables 307.1(1) and 307.1(2) shall be classified as Group H-5. Such facilities and areas shall be designed and constructed in accordance with Section 415.11.

[F] 307.8 Multiple hazards.

Buildings and structures containing a material or materials representing hazards that are classified in one or more of Groups H-1, H-2, H-3 and H-4 shall conform to the code requirements for each of the occupancies so classified.

Section 308 Institutional Group I

CDP

CDP

308.1 Institutional Group I.

CDP

INSIGHTS

CDP

INSIGHTS

Institutional Group I occupancy includes, among others, the use of a building or structure, or a portion thereof, in which care or supervision is provided to persons who are or are incapable of self-preservation without physical assistance or in which persons are detained for penal or correctional purposes or in which the liberty of the occupants is restricted. Institutional occupancies shall be classified as Group I-1, I-2, I-3 or I-4.

308.2 Institutional Group I-1.

CDP

CDP

Institutional Group I-1 occupancy shall include buildings, structures or portions thereof for more than 16 persons, excluding staff, who reside on a 24-hour basis in a supervised environment and receive custodial care. Buildings of Group I-1 shall be classified as one of the occupancy conditions specified in Section 308.2.1 or 308.2.2 and shall comply with Section 420. This group shall include, but not be limited to, the following:

Alcohol and drug centers

Alcohol and drug centers

Assisted living facilities

Assisted living facilities

Congregate care facilities

Congregate care facilities

Group homes

Group homes

Halfway houses

Halfway houses

Residential board and care facilities

Residential board and care facilities

Social rehabilitation facilities

Social rehabilitation facilities

308.2.1 Condition 1.

CDP

CDP

This occupancy condition shall include buildings in which all persons receiving custodial care who, without any assistance, are capable of responding to an emergency situation to complete building evacuation.

308.2.2 Condition 2.

CDP

CDP

This occupancy condition shall include buildings in which there are any persons receiving custodial care who require limited verbal or physical assistance while responding to an emergency situation to complete building evacuation.

308.2.3 Six to 16 persons receiving custodial care.

CDP

CDP

A facility housing not fewer than six and not more than 16 persons receiving custodial care shall be classified as Group R-4.

308.2.4 Five or fewer persons receiving custodial care.

CDP

CDP

A facility with five or fewer persons receiving custodial care shall be classified as Group R-3 or shall comply with the International Residential Code provided an automatic sprinkler system is installed in accordance with Section 903.3.1.3 of this code or Section P2904 of the International Residential Code.

308.3 Institutional Group I-2.

CDP

CDP

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

Foster care facilities

Foster care facilities

Detoxification facilities

Detoxification facilities

Hospitals

Hospitals

Nursing homes

Nursing homes

Psychiatric hospitals

Psychiatric hospitals

308.3.1 Occupancy conditions.

Buildings of Group I-2 shall be classified as one of the occupancy conditions specified in Section 308.3.1.1 or 308.3.1.2 and shall comply with Section 407.

308.3.1.1 Condition 1.

This occupancy condition shall include facilities that provide nursing and medical care but do not provide emergency care, surgery, obstetrics or inpatient stabilization units for psychiatric or detoxification, including but not limited to nursing homes and foster care facilities.

308.3.1.2 Condition 2.

This occupancy condition shall include facilities that provide nursing and medical care and could provide emergency care, surgery, obstetrics or inpatient stabilization units for psychiatric or detoxification, including but not limited to hospitals.

308.3.2 Five or fewer persons receiving medical care.

CDP

CDP

A facility with five or fewer persons receiving medical care shall be classified as Group R-3 or shall comply with the International Residential Code provided an automatic sprinkler system is installed in accordance with Section 903.3.1.3 of this code or Section P2904 of the International Residential Code.

308.4 Institutional Group I-3.

INSIGHTS

INSIGHTS

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

Correctional centers

Correctional centers

Detention centers

Detention centers

Jails

Jails

Prerelease centers

Prerelease centers

Prisons

Prisons

Reformatories

Reformatories

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

308.4.1 Condition 1.

This occupancy condition shall include buildings in which free movement is allowed from sleeping areas, and other spaces where access or occupancy is permitted, to the exterior via means of egress without restraint. A Condition 1 facility is permitted to be constructed as Group R.

308.4.2 Condition 2.

This occupancy condition shall include buildings in which free movement is allowed from sleeping areas and any other occupied smoke compartment to one or more other smoke compartments. Egress to the exterior is impeded by locked exits.

308.4.3 Condition 3.

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This occupancy condition shall include buildings in which free movement is allowed within individual smoke compartments, such as within a residential unit composed of individual sleeping units and group activity spaces, where egress is impeded by remote-controlled release of means of egress from such a smoke compartment to another smoke compartment.

308.4.4 Condition 4.

This occupancy condition shall include buildings in which free movement is restricted from an occupied space. Remote-controlled release is provided to permit movement from sleeping units, activity spaces and other occupied areas within the smoke compartment to other smoke compartments.

308.4.5 Condition 5.

This occupancy condition shall include buildings in which free movement is restricted from an occupied space. Staff-controlled manual release is provided to permit movement from sleeping units, activity spaces and other occupied areas within the smoke compartment to other smoke compartments.

308.5 Institutional Group I-4, day care facilities.

CDP

CDP

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

Adult day care

Adult day care

Child day care

Child day care

308.5.1 Classification as Group E.

CDP

CDP

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A child day care facility that provides care for more than five but not more than 100 children 2 1/2 years or less of age, where the rooms in which the children are cared for are located on a level of exit discharge serving such rooms and each of these child care rooms has an exit door directly to the exterior, shall be classified as Group E.

308.5.2 Within a place of religious worship.

CDP

CDP

Rooms and spaces within places of religious worship providing such care during religious functions shall be classified as part of the primary occupancy.

308.5.3 Five or fewer persons receiving care.

CDP

CDP

A facility having five or fewer persons receiving custodial care shall be classified as part of the primary occupancy.

308.5.4 Five or fewer persons receiving care in a dwelling unit.

CDP

CDP

A facility such as the above within a dwelling unit and having five or fewer persons receiving custodial care shall be classified as a Group R-3 occupancy or shall comply with the International Residential Code.

Section 309 Mercantile Group M

309.1 Mercantile Group M.

INSIGHTS

INSIGHTS

Mercantile Group M occupancy includes, among others, the use of a building or structure or a portion thereof for the display and sale of merchandise, and involves stocks of goods, wares or merchandise incidental to such purposes and where the public has access. Mercantile occupancies shall include, but not be limited to, the following:

Department stores

Department stores

Drug stores

Drug stores

Greenhouses for display and sale of plants that provide public access

Greenhouses for display and sale of plants that provide public access

Markets

Markets

Motor fuel-dispensing facilities

Motor fuel-dispensing facilities

Retail or wholesale stores

Retail or wholesale stores

Sales rooms

Sales rooms

309.2 Quantity of hazardous materials.

The aggregate quantity of nonflammable solid and nonflammable or noncombustible liquid hazardous materials stored or displayed in a single control area of a Group M occupancy shall not exceed the quantities in Table 414.2.5.1.

309.3 Motor fuel-dispensing facilities.

Motor fuel-dispensing facilities shall comply with Section 406.7.

Section 310 Residential Group R

CDP

INSIGHTS

CDP
INSIGHTS

310.1 Residential Group R.

INSIGHTS

INSIGHTS

Residential Group R includes, among others, the use of a building or structure, or a portion thereof, for sleeping purposes when not classified as an Institutional Group I or when not regulated by the International Residential Code. Group R occupancies not constructed in accordance with the International Residential Code as permitted by Sections 310.4.1 and 310.4.2 shall comply with Section 420.

310.2 Residential Group R-1.

INSIGHTS

INSIGHTS

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

Boarding houses (transient) with more than 10 occupants

Boarding houses (transient) with more than 10 occupants

Congregate living facilities (transient) with more than 10 occupants

Congregate living facilities (transient) with more than 10 occupants

Hotels (transient)

Hotels (transient)

Motels (transient)

Motels (transient)

Lodging houses with more than five guestrooms

Lodging houses with more than five guestrooms

310.3 Residential Group R-2.

CDP

INSIGHTS

CDP

INSIGHTS

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

Apartment houses

Apartment houses

Congregate living facilities (nontransient) with more than 16 occupants

Boarding houses (nontransient)

Convents

Dormitories

Emergency services living quarters

Fraternities and sororities

Monasteries

Congregate living facilities (nontransient) with more than 16 occupants

Boarding houses (nontransient)

Boarding houses (nontransient)

Convents

Convents

Dormitories

Dormitories

Emergency services living quarters

Emergency services living quarters

Fraternities and sororities

Fraternities and sororities

Monasteries

Monasteries

Hotels (nontransient) with more than five guestrooms

Hotels (nontransient) with more than five guestrooms

Live/work units

Live/work units

Motels (nontransient) with more than five guestrooms

Motels (nontransient) with more than five guestrooms

Vacation timeshare properties

Vacation timeshare properties

310.4 Residential Group R-3.

CDP

INSIGHTS

CDP

INSIGHTS

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

Buildings that do not contain more than two dwelling units

Buildings that do not contain more than two dwelling units

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

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

Congregate living facilities (nontransient) with 16 or fewer occupants

Boarding houses (nontransient)

Convents

Dormitories

Emergency services living quarters

Fraternities and sororities

Monasteries

Congregate living facilities (nontransient) with 16 or fewer occupants

Boarding houses (nontransient)

Boarding houses (nontransient)

Convents

Convents

Dormitories

Dormitories

Emergency services living quarters

Emergency services living quarters

Fraternities and sororities

Fraternities and sororities

Monasteries

Monasteries

Congregate living facilities (transient) with 10 or fewer occupants

Boarding houses (transient)

Congregate living facilities (transient) with 10 or fewer occupants

Boarding houses (transient)

Boarding houses (transient)

Lodging houses with five or fewer guestrooms

Lodging houses with five or fewer guestrooms

Hotels (nontransient) with five or fewer guestrooms

Hotels (nontransient) with five or fewer guestrooms

Motels (nontransient) with five or fewer guestrooms

Motels (nontransient) with five or fewer guestrooms

310.4.1 Care facilities within a dwelling.

CDP

CDP

Care facilities for five or fewer persons receiving care that are within a single-family dwelling are permitted to comply with the International Residential Code provided an automatic sprinkler system is installed in accordance with Section 903.3.1.3 of this code or Section P2904 of the International Residential Code.

310.4.2 Lodging houses.

CDP

INSIGHTS

CDP

INSIGHTS

Owner-occupied lodging houses with five or fewer guestrooms shall be constructed in accordance with this code or the International Residential Code, provided that facilities constructed using the International Residential Code are protected by an automatic sprinkler system installed in accordance with Section P2904 of the International Residential Code.

310.5 Residential Group R-4.

CDP

CDP

Residential Group R-4 occupancy shall include buildings, structures or portions thereof for more than five but not more than 16 persons, excluding staff, who reside on a 24-hour basis in a supervised residential environment and receive custodial care. Buildings of Group R-4 shall be classified as one of the occupancy conditions specified in Section 310.5.1 or 310.5.2. This group shall include, but not be limited to, the following:

Alcohol and drug centers

Alcohol and drug centers

Assisted living facilities

Assisted living facilities

Congregate care facilities

Congregate care facilities

Group homes

Group homes

Halfway houses

Halfway houses

Residential board and care facilities

Residential board and care facilities

Social rehabilitation facilities

Social rehabilitation facilities

Group R-4 occupancies shall meet the requirements for construction as defined for Group R-3, except as otherwise provided for in this code.

310.5.1 Condition 1.

This occupancy condition shall include buildings in which all persons receiving custodial care, without any assistance, are capable of responding to an emergency situation to complete building evacuation.

310.5.2 Condition 2.

This occupancy condition shall include buildings in which there are any persons receiving custodial care who

require limited verbal or physical assistance while responding to an emergency situation to complete building evacuation.

Section 311 Storage Group S

CDP

INSIGHTS

CDP

INSIGHTS

311.1 Storage Group S.

INSIGHTS

INSIGHTS

Storage Group S occupancy includes, among others, the use of a building or structure, or a portion thereof, for storage that is not classified as a hazardous occupancy.

311.1.1 Accessory storage spaces.

CDP

INSIGHTS

CDP

INSIGHTS

A room or space used for storage purposes that is accessory to another occupancy shall be classified as part of that occupancy.

311.1.2 Combustible storage.

CDP

CDP

High-piled stock or rack storage, or attic, under-floor and concealed spaces used for storage of combustible materials, shall be in accordance with Section 413.

311.2 Moderate-hazard storage, Group S-1.

INSIGHTS

INSIGHTS

Storage Group S-1 occupancies are buildings occupied for storage uses that are not classified as Group S-2, including, but not limited to, storage of the following:

Aerosol products, Levels 2 and 3, aerosol cooking spray, plastic aerosol 3 (PA3)

Aerosol products, Levels 2 and 3, aerosol cooking spray, plastic aerosol 3 (PA3)

Aircraft hangar (storage and repair)

Aircraft hangar (storage and repair)

Bags: cloth, burlap and paper

Bags: cloth, burlap and paper

Bamboos and rattan

Bamboos and rattan

Baskets

Baskets

Belting: canvas and leather

Belting: canvas and leather

Beverages over 20 percent alcohol content

Beverages over 20 percent alcohol content

Books and paper in rolls or packs

Books and paper in rolls or packs

Boots and shoes

Boots and shoes

Buttons, including cloth covered, pearl or bone

Buttons, including cloth covered, pearl or bone

Cardboard and cardboard boxes

Cardboard and cardboard boxes

Clothing, woolen wearing apparel

Clothing, woolen wearing apparel

Cordage

Cordage

Dry boat storage (indoor)

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Dry boat storage (indoor)

Furniture

Furniture

Furs

Furs

Glues, mucilage, pastes and size

Glues, mucilage, pastes and size

Grains

Grains

Horns and combs, other than celluloid

Horns and combs, other than celluloid

Leather

Leather

Linoleum

Linoleum

Lithium-ion or lithium metal batteries

Lithium-ion or lithium metal batteries

Lumber

Lumber

Motor vehicle repair garages complying with the maximum allowable quantities of hazardous materials specified in Table 307.1(1) (see Section 406.8)

Motor vehicle repair garages complying with the maximum allowable quantities of hazardous materials specified in Table 307.1(1) (see Section 406.8)

Photo engravings

Photo engravings

Resilient flooring

Resilient flooring

Self-service storage facility (mini-storage)

Self-service storage facility (mini-storage)

Silks

Silks

Soaps

Soaps

Sugar

Sugar

Tires, bulk storage of

Tires, bulk storage of

Tobacco, cigars, cigarettes and snuff

Tobacco, cigars, cigarettes and snuff

Upholstery and mattresses

Upholstery and mattresses

Vehicle repair garages for vehicles powered by lithium-ion or lithium metal batteries

Vehicle repair garages for vehicles powered by lithium-ion or lithium metal batteries

Wax candles

Wax candles

311.2.1 Aircraft hangers.

Aircraft hangars used for storage or repair shall comply with Section 412.3.

311.2.2 Motor vehicle repair garages.

Motor vehicle repair garages shall comply with Section 406.8.

311.3 Low-hazard storage, Group S-2.

INSIGHTS

INSIGHTS

Storage Group S-2 occupancies include, among others, buildings used for the storage of noncombustible materials such as products on wood pallets or in paper cartons with or without single thickness divisions; or in paper wrappings. Such products are permitted to have a negligible amount of plastic trim, such as knobs, handles or film wrapping. Group S-2 storage uses shall include, but not be limited to, storage of the following:

Asbestos

Asbestos

Beverages up to and including 20 percent alcohol

Beverages up to and including 20 percent alcohol

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Cement in bags

Cement in bags

Chalk and crayons

Chalk and crayons

Dairy products in nonwaxed coated paper containers

Dairy products in nonwaxed coated paper containers

Dry cell batteries

Dry cell batteries

Electrical coils

Electrical coils

Electrical motors

Electrical motors

Empty cans

Empty cans

Food products

Food products

Foods in noncombustible containers

Foods in noncombustible containers

Fresh fruits and vegetables in nonplastic trays or containers

Fresh fruits and vegetables in nonplastic trays or containers

Frozen foods

Frozen foods

Glass

Glass

Glass bottles, empty or filled with noncombustible liquids

Glass bottles, empty or filled with noncombustible liquids

Gypsum board

Gypsum board

Inert pigments

Inert pigments

Ivory

Ivory

Meats

Meats

Metal cabinets

Metal cabinets

Metal desks with plastic tops and trim

Metal desks with plastic tops and trim

Metal parts

Metal parts

Metals

Metals

Mirrors

Mirrors

Oil-filled and other types of distribution transformers

Oil-filled and other types of distribution transformers

Public parking garages, open or enclosed

Public parking garages, open or enclosed

Porcelain and pottery

Porcelain and pottery

Stoves

Stoves

Talc and soapstones

Talc and soapstones

Washers and dryers

Washers and dryers

311.3.1 Public parking garages.

Public parking garages shall comply with Section 406.4 and the additional requirements of Section 406.5 for open parking garages or Section 406.6 for enclosed parking garages.

Section 312 Utility and Miscellaneous Group U

CDP

CDP

312.1 General.

CDP

INSIGHTS

CDP

INSIGHTS

Buildings and structures of an accessory character and miscellaneous structures not classified in any specific occupancy shall be constructed, equipped and maintained to conform to the requirements of this code commensurate with the fire and life hazard incidental to their occupancy. Group U shall include, but not be limited to, the following:

Agricultural buildings

Agricultural buildings

Aircraft hangars, accessory to a one- or two-family residence (see Section 412.4)

Aircraft hangars, accessory to a one- or two-family residence (see Section 412.4)

Barns

Barns

Carports

Carports

Communication equipment structures with a gross floor area of less than 1,500 square feet (139 m²)

Communication equipment structures with a gross floor area of less than 1,500 square feet (139 m²)

Fences more than 7 feet (2134 mm) in height

Fences more than 7 feet (2134 mm) in height

Grain silos, accessory to a residential occupancy

Grain silos, accessory to a residential occupancy

Livestock shelters

Livestock shelters

Private garages

Private garages

Retaining walls

Retaining walls

Sheds

Sheds

Stables

Stables

Tanks

Tanks

Towers

Towers

312.1.1 Greenhouses.

Greenhouses not classified as another occupancy shall be classified as Use Group U.

312.2 Private garages and carports.

Private garages and carports shall comply with Section 406.3.

312.3 Residential aircraft hangars.

Aircraft hangars accessory to a one- or two-family residence shall comply with Section 412.4.

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