

2006 International Building Code Errata

FIRST PRINTING (Updated July 1, 2006)

CHAPTER 1 ADMINISTRATION

~~106.3.4.1 General. Where structural observation is required by Section 1709, the statement of special inspections shall name the individual or firms who are to perform structural observation and describe the stages of construction at which structural observation is to occur (see also duties specified in Section 1704).-(posted 7-1-06)~~

**CHAPTER 3
USE AND OCCUPANCY CLASSIFICATION**

303.1 Assembly Group A. *(No change).*

Exceptions:

1. 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.

(Remainder of section unchanged, posted 7-1-06)

[F] 307.1 High-hazard Group H. *(No change).*

Exceptions: The following shall not be classified in Group H, but shall be classified in the occupancy that they most nearly resemble:

(1. through 4. No change.)

5. Closed piping system containing flammable or combustible liquids or gases utilized for the operation of machinery or equipment. *(posted 7-1-06)*

(6. through 15. No change.)

[F]TABLE 307.1(1)

MAXIMUM ALLOWABLE QUANTITY PER CONTROL AREA OF HAZARDOUS MATERIALS POSING A PHYSICAL HAZARD

(No change to table)

a through m. *(No change)*

n. For storage and display quantities in Group M and storage quantities in Group S occupancies complying with Section 414.2.4 ~~414.2.5~~ see Tables 414.2.5(1) and 414.2.5(2). *(posted 7-1-06)*

o. and p. *(No change)*

[F]TABLE 307.1(2)

MAXIMUM ALLOWABLE QUANTITY PER CONTROL AREA OF HAZARDOUS MATERIALS POSING A HEALTH HAZARD

(No change to table)

a and b. *(No change)*

c. For storage and display quantities in Group M and storage quantities in Group S occupancies complying with Section 414.2.4 ~~414.2.5~~ see ~~Table 414.2.4(1)~~ Tables 414.2.5(1) and 414.2.5(2). *(posted 7-1-06)*

d. through j. *(No change)*

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 ~~414.2.4(1)~~ 414.2.5(1). *(posted 7-1-06)*

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

406.2.3 Guards. Guards shall be provided in accordance with Section ~~4042~~ 1013 at exterior and interior vertical openings on floor and roof areas where vehicles are parked or moved and where the vertical distance to the ground or surface directly below exceeds 30 inches (762 mm). (*posted 7-1-06*)

410.3.6 Scenery. Combustible materials used in sets and scenery shall meet the fire propagation performance criteria of NFPA 701, in accordance with Section ~~805~~ 806 and the *International Fire Code*. Foam plastics and materials containing foam plastics shall comply with Section 2603 and the *International Fire Code*. (*posted 7-1-06*)

[F] 414.2.3 Number. The maximum number of control areas within a building shall be in accordance with Table ~~414.2.3~~ 414.2.2. (*posted 7-1-06*)

[F] 415.6.1 Combustible dusts, grain processing and storage. The provisions of Sections 415.6.1.1 through 415.6.1.6 shall apply to buildings in which materials that produce combustible dusts are stored or handled. Buildings that store or handle combustible dusts shall comply with the applicable provisions of NFPA 61, NFPA 120, NFPA ~~484~~ 651, NFPA 654, NFPA 655, NFPA 664 and NFPA 85, and the *International Fire Code*. (*posted 7-1-06*)

**CHAPTER 5
GENERAL BUILDING HEIGHTS AND AREAS**

508.2.2.1 Construction. Doors shall be self- or automatic closing upon detection of smoke in accordance with Section 715.4.7.3. (posted 7-1-06)

**TABLE 508.2
INCIDENTAL USE AREAS**

ROOM OR AREA	SEPARATION AND/OR PROTECTION
Stationary storage <u>lead-acid</u> battery systems having a liquid capacity of more than 100 gallons used for facility standby power, emergency power or uninterrupted power supplies	1-hour in Group B, F, M, S and U occupancies. 2-hour in Group A, E, I and R occupancies.

(Portions of table not shown do not change, posted 7-1-06)

**CHAPTER 7
FIRE-RESISTANCE-RATED CONSTRUCTION**

702.1 Definitions. ...

FIRE SEPARATION DISTANCE. The distance measured from the building face to one of the following:

1. The closest interior lot line;
2. To the centerline of a street, an alley or public way; or
3. To an imaginary line between two buildings on the property.

The distance shall be measured at right angles from the face of the wall. *(posted 7-1-06)*

**TABLE 704.8
MAXIMUM ARE OF EXTERIOR WALL OPENINGS**

(Delete four references to note b in the table, remainder of table unchanged, posted 7-1-06)

- a. *(No change)*
- b. ~~See Section 704.7 for unexposed surface temperature. Not used.~~ *(posted 7-1-06)*
- c. through j. *(No change)*

706.3.7 Control areas. Fire barriers separating control areas shall have a fire-resistance rating of not less than that required in Section ~~414.2.3~~ 414.2.4. *(posted 7-1-06)*

706.3.8 Separation of mixed occupancies. Where the provisions of Section ~~508.3.2~~ 508.3.3 are applicable, the fire barrier separating mixed occupancies shall have a fire-resistance rating of not less than that indicated in Section ~~508.3.2~~ 508.3.3 based on the occupancies being separated. *(posted 7-1-06)*

706.4 Exterior walls. Where exterior walls serve as a part of a required fire-resistance-rated shaft or exit enclosure, ~~or separation~~ such walls shall comply with the requirements of Section 704 for exterior walls and the fire-resistance-rated enclosure ~~or separation~~ requirements shall not apply.

Exception: ~~Exterior walls required to be fire-resistance rated in accordance with Section 1023.6.~~ Exterior walls required to be fire-resistance rated in accordance with Section 1014.5.1 for exterior egress balconies, Section 1020.1.4 for exit enclosures and Section 1023.6 for exterior exit ramps and stairways. *(posted 7-1-06)*

~~**706.6 Exterior walls.** Where exterior walls serve as a part of a required fire-resistance-rated enclosure or separation, such walls shall comply with the requirements of Section 704 for exterior walls, and the fire-resistance-rated enclosure or separation requirements shall not apply.~~

~~**Exception:** Exterior walls required to be fire-resistance rated in accordance with Section 1014.5.1 for exterior egress balconies, Section 1020.1.4 for exit enclosures and Section 1023.6 for exterior exit ramps and stairways. *(Duplicate of Section 706.4, posted 7-1-06)*~~

Renumber Sections 706.7 through 706.10 due to deletion of 706.6. (posted 7-1-06)

707.7 Openings. Openings in a shaft enclosure shall be protected in accordance with Section 715 as required for fire barriers. Doors shall be self- or automatic closing by smoke detection in accordance with Section ~~715.4.7.3~~ 715.3.7.3. *(posted 7-1-06)*

711.3 Fire-resistance rating. ... Where the floor assembly separates mixed occupancies, the assembly shall have a fire-resistance rating of not less than that required by Section ~~508.3.2~~ 508.3.3 based on the occupancies being separated. *.....(posted 7-1-06)*

712.4.1 Fire-resistance rated assemblies. Penetrations of the fire-resistance rated floor, floor/ceiling assembly or the ceiling membrane of a roof/ceiling assembly shall comply with Sections 712.4.1.1 through ~~714.4.1.5~~ 712.4.1.4. *(posted 7-1-06)*

712.4.1.2 Membrane penetrations. (No change)

Exceptions:

1. Membrane penetrations of maximum 2-hour fire-resistance-rated walls and partitions by steel, ferrous or copper conduits, pipes, tubes or vents, or concrete or masonry items where the annular space is protected either in accordance with Section 712.4.1.1 or to prevent the free passage of flame and the products of combustion. The aggregate area of the openings through the membrane shall not exceed 100 square inches (64 500 mm²) in any 100 square feet (9.3m²) of ceiling area in assemblies tested without penetrations. (posted 7-1-06)
2. through 4. (No change)

~~**712.4.1.5 Floor fire doors.** Floor fire doors used to protect openings in fire-resistance-rated floors shall be tested in accordance with NFPA 288, and shall achieve a fire-resistance rating not less than the assembly being penetrated. Floor fire doors shall be labeled by an approved agency. (Duplicate of Section 711.8, posted 7-1-06)~~

~~**712.4.3 Ducts and air transfer openings.** Penetrations of horizontal assemblies by ducts that are not protected with dampers shall comply with Section 712.2 and Sections 712.4 through 712.4.2.2. Ducts and air transfer openings that are protected with dampers shall comply with Section 716. (Duplicate of Section 712.4.1.3, posted 7-1-06)~~

~~**712.4.4 Dissimilar materials.** Noncombustible penetrating items shall not connect to combustible materials beyond the point of firestopping unless it can be demonstrated that the fire-resistance integrity of the horizontal assembly is maintained. (Duplicate of Section 712.4.1.4, posted 7-1-06)~~

**TABLE 715.4
FIRE DOOR AND FIRE SHUTTER FIRE PROTECTION RATINGS**

(No change to table)

- a. (No change)
- b. For testing requirements, see Section 715.3.3 715.4.3. (posted 7-1-06)

**TABLE 715.5
FIRE WINDOW ASSEMBLY FIRE PROTECTION RATINGS**

TYPE OF ASSEMBLY	REQUIRED ASSEMBLY RATING (hours)	MINIMUM FIRE WINDOW ASSEMBLY RATING (hours)
Interior walls:		
Fire walls	All	NP ^a
Fire barriers	> 1	NP ^a
	1	3/4
Smoke barriers and fire partitions	1	3/4

(Add space in first column between fire barrier and smoke barrier to align requirements, Remainder of table unchanged, posted 7-1-06)

**TABLE 720.1(2)
RATED FIRE-RESISTANCE PERIODS FOR VARIOUS WALLS AND PARTITIONS**

Item 15 – 15-1.16, Construction column

~~2" x 4" wood studs at 16" with double top plates, single bottom plate; interior sides covered with 5/8" Type X gypsum wallboard, 4' wide, applied horizontally unblocked, and fastened with 2 1/4" Type S drywall screws, spaced 12" on center, wallboard joints covered with paper tape and joint compound, fastener heads covered with joint compound. Exterior covered with 3/8" wood structural panels applied vertically, horizontal joints blocked and fastened with 6d common nails (bright) 12" on center in the field, 6" on center panel edges. Cavity to be filled with 3 1/2" mineral wool insulation. Rating established~~

2" x 6" wood studs at 24" centers with double top plates, single bottom plate; interior and exterior side covered with two layers of 5/8" Type X gypsum wallboard, 4' wide, applied horizontally with vertical joints over studs. Base layer fastened with 2-1/4" Type S drywall screws, spaced 8" on center, wallboard joints covered with paper tape and joint compound, fastened heads covered with joint compound. Cavity to be filled with 5-1/2" mineral wool insulation. (posted 7-1-06)

Item 16 – 16-1.3, Construction column

2" x 6" wood studs at 16" centers with double top plates, single bottom plates; interior side covered with 5/8" Type X gypsum wallboard, 4' 4" wide, applied vertically with all joints over framing or blocking and fastened with 2 1/4" Type S drywall screws spaced 7" on center. Joints to be covered with tape and joint compound. Exterior covered with 3/8" wood structural panels (oriented strand board), applied vertically with edges over framing or blocking and fastened with 6d common nails (bright) at 12" on center in the field and 6" on center on panel edges. R-19 fiberglass insulation installed in stud cavity. *(change 4 inches to 4 feet, posted 7-1-06)*

TABLE 720.1(3)
MINIMUM PROTECTION FOR FLOOR AND ROOF SYSTEMS

(First Column)

21. Wood joists, wood I-joist, floor trusses and flat or pitched roof trusses spaced a maximum 24" o.c. with 1/2" wood structural panels with exterior glue applied at right angles to top of joist or top chord of trusses with 8d nails. The wood structural panel thickness shall not be less than nominal 1/2" less than required by Chapter 23. *(posted 7-1-06)*

22. ~~Steel~~ ~~Wood~~ joists, ~~wood I-joists~~, floor trusses and flat or pitched roof trusses spaced a maximum 24" o.c. with 1/2" wood structural panels with exterior glue applied at right angles to top of joist or top chord of trusses with ~~8d nails~~ No. 8 screws. The wood structural panel thickness shall not be less than nominal 1/2" less than required by Chapter 23. *(posted 7-1-06)*

23. Wood I-joist (minimum joist depth 9-1/4" with a minimum flange depth of 1-5/16" and a minimum flange cross-sectional area of 2.3 square inches) at 24" o.c. spacing with 1x4 (nominal) wood furring strip spacer applied parallel to and covering the bottom of the bottom flange of each member, tacked in place. 2" mineral wool fiber insulation, 3.5 pcf (nominal) installed adjacent to the bottom flange of the I-joist and supported by the 1x4 furring strip spacer. *(posted 7-1-06)*

TABLE 720.1(3)
MINIMUM PROTECTION FOR FLOOR AND ROOF SYSTEMS

Delete Item 24 (posted 7-1-06)

TABLE 720.1(3)
MINIMUM PROTECTION FOR FLOOR AND ROOF SYSTEMS

(Correction for heading over items 28, 29 and 30)

FLOOR OR ROOF CONSTRUCTION	ITEM NUMBER	CEILING CONSTRUCTION	THICKNESS OF FLOOR OR ROOF CONSTRUCTION (inches)				MINIUM THICKNESS OF CEILING (inches)			
			4 4 hour	4 3 hour	4 2 hour	1 hour	4 4 hour	4 3 hour	4 2 hour	1 hour

(posted 7-1-06)

CHAPTER 9 FIRE PROTECTION SYSTEMS

[F] 903.3.1.1 NFPA 13 sprinkler systems. Where the provisions of this code require that a building or portion thereof be equipped throughout with an automatic sprinkler system in accordance with this section, sprinklers shall be installed throughout in accordance with NFPA 13 except as provided in Section 903.3.1.1.1.

[F] 909.9.2 Separation distance. Determination of the design fire shall include consideration of the type of fuel, fuel spacing and configuration.

$$R = [Q / (12\pi q'')]^{1/2} \text{ (Equation 9-8)}$$

where:

q'' = Incident radiant heat flux required for nonpiloted ignition, Btu/ft² s (W/m²).

Q = Heat release from fire, Btu/s (kW).

R = Separation distance from target to center of fuel package, feet (m). (posted 7-1-06)

[F] 909.10.1 Exhaust fans. (Renumber equation 9-9 to 9-3, posted 7-1-06)

[F] TABLE 910.3 REQUIREMENTS FOR DRAFT CURTAINS AND SMOKE AND HEAT VENTS

(Change references in first column, 4 occurrences – Section 910.2.2 ~~910.2.3~~) (posted 7-1-06)

[F] 910.4.2 Size. (Renumber equation 9-10 to 9-4, posted 7-1-06)

**CHAPTER 10
MEANS OF EGRESS**

1007.2 Continuity and components. *(No change)*

Items 1 through 5. *(No change)*

6. Horizontal exits complying with Section ~~4024~~ 1022. *(posted 7-1-06)*

Items 7 and 8. *(No change)*

1007.6.2 Separation. Each area of refuge shall be separated from the remainder of the story by a smoke barrier complying with Section 709 or a horizontal exit complying with Section ~~4024~~ 1022. Each area of refuge shall be designed to minimize the intrusion of smoke.

Exception: Areas of refuge located within a vertical exit enclosure. *(posted 7-1-06)*

1008.1 Doors. Means of egress doors shall meet the requirements of this section. Doors serving a means of egress system shall meet the requirements of this section and Section ~~4047.2~~ 1018.2.*(posted 7-1-06)*

1023.1 Exterior exit ramps and stairways. Exterior exit ramps and stairways serving as an element of a required means of egress shall comply with this section.

Exception: Exterior exit ramps and stairways for outdoor stadiums complying with Section ~~4049.4~~ 1020.1, Exception 2. *(posted 7-1-06)*

1023.5 Location. Exterior exit ramps and stairways shall be located in accordance with Section ~~4023.3~~ 1024.3. *(posted 7-1-06)*

CHAPTER 11
ACCESSIBILITY

1109.7 Lifts. Platform (wheelchair) lifts are permitted to be a part of a required accessible route in new construction where indicated in Items 1 through ~~7~~ 10. Platform (wheelchair) lifts shall be installed in accordance with ASME A18.1. (*posted 7-1-06*)

Items 1 through 10. (*No change*)

CHAPTER 23
WOOD

Section 2305.3.2, Equation 23-2

(The term 'Eab' in the equation should be 'EAb', posted 7-1-06)

**CHAPTER 27
ELECTRICAL**

[F] 2702.2 Where required. Emergency and standby power systems shall be provided where required by Sections 2702.2.1 through ~~2702.2.19~~ 2702.2.20. (*posted 7-1-06*)

**CHAPTER 30
ELEVATORS AND CONVEYING SYSTEMS**

3006.4 Machine rooms and machinery spaces. Elevator machine rooms and machinery spaces shall be enclosed with fire barriers complying with Section 706 or horizontal assemblies complying with Section 711 ~~having with~~ a fire-resistance rating not less than the required rating of the hoistway enclosure served by the machinery. Openings shall be protected with assemblies having a fire-protection rating not less than that required for the hoistway enclosure doors. (*posted 7-1-06*)

**CHAPTER 31
SPECIAL CONSTRUCTION**

3104.5 Fire barriers between pedestrian walkways and buildings. *(No change)*

Exceptions: 1 through 4 *(No change)*

The previous exceptions shall apply to pedestrian walkways have a maximum height above grade of three stories or 40 feet (12 192mm), or five stories or 55 feet (16 764mm) where sprinklered. (posted 7-1-06)

**CHAPTER 33
SAFEGUARDS DURING CONSTRUCTION**

~~**3310.3 Stairway floor number signs.** Temporary stairway floor number signs shall be provided in accordance with the requirements of Section 1020.1.6. (posted 7-1-06)~~

**CHAPTER 34
EXISTING STRUCTURES**

3403.2.3.2 Alterations. Alterations are permitted to be made to any structure without requiring the structure to comply with Section 1613, provided the alterations conform to the requirements for a new structure. Alterations that increase the seismic force in any existing structural element by more than 10 percent cumulative since the original construction or decrease the design strength of any existing structural element to resist seismic forces by more than 10 5 percent cumulative since the original construction shall not be permitted unless the entire seismic- force-resisting system is determined to conform to ASCE 7 for a new structure. If the building's seismic base shear capacity has been increased since the original construction, the percent change in base shear may be calculated relative to the increased value.
(posted 7-1-06)

Exception: (No change)

3410.6.13 Maximum exit access travel distance. The maximum allowable exit access travel distance shall be determined in accordance with Section ~~4045.4~~ 1016.1.... (posted 7-1-06)

CHAPTER 35
REFERENCED STANDARDS

NFPA

~~484-02 Combustible Metals, Metal Powders and Metal Dust (posted 7-1-06)~~

~~651-98 Machining and Finishing of Aluminum and the Production and Handling of Aluminum Powders (posted 7-1-06)~~

UL

127-99 96 Factory-built Fireplaces – with Revisions through November 1999

APPENDIX C
GROUP U-AGRICULTURAL BUILDINGS

C103.1 Mixed occupancies. Mixed occupancies shall be protected in accordance with ~~Chapter 3~~ Section 508. (*posted 7-1-06*)