

**2009 International
Building Code
Chapters 7, 10, and 11**

CHAPTER 7

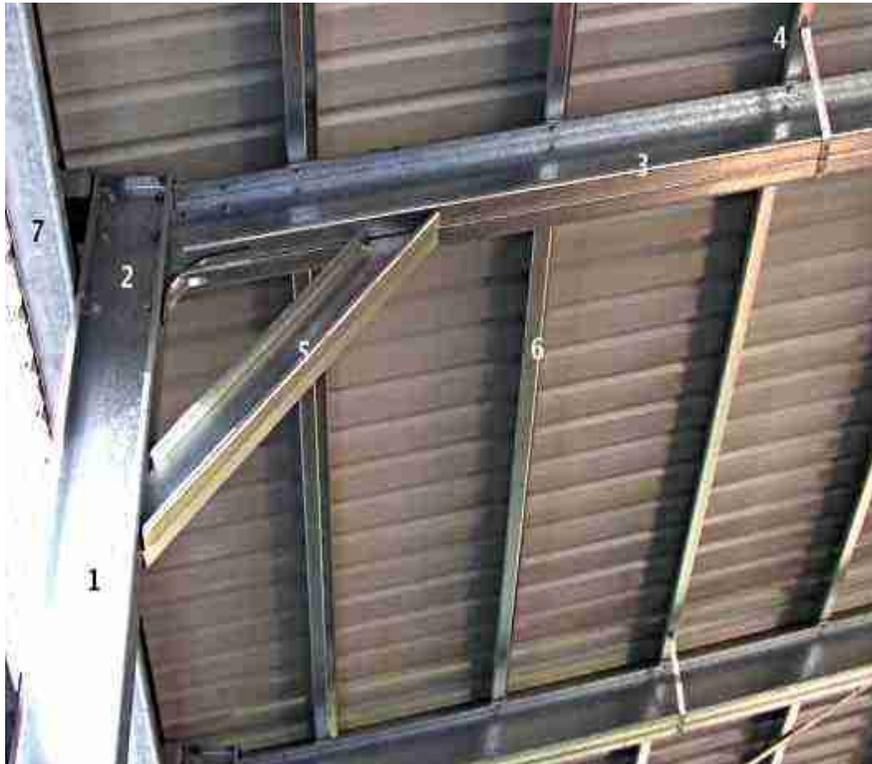
FIRE AND SMOKE PROTECTION FEATURES

New definition

Primary Structural Frame. (Load-bearing)

- Columns.
- Girders, beams, trusses etc. connected to columns.
- Floor & roof construction with direct connection to columns
- Essential bracing to structural members under gravity loads.

Primary Structural Frame



New Definition

Secondary Members

- Structural members with no direct connection to columns.
- Floor construction with no direct connection to columns.
- Bracing members other than those that are not part of the *primary structural frame*.

Secondary Members



Fire-Resistance Rating of Exterior Walls, Section 705.5.

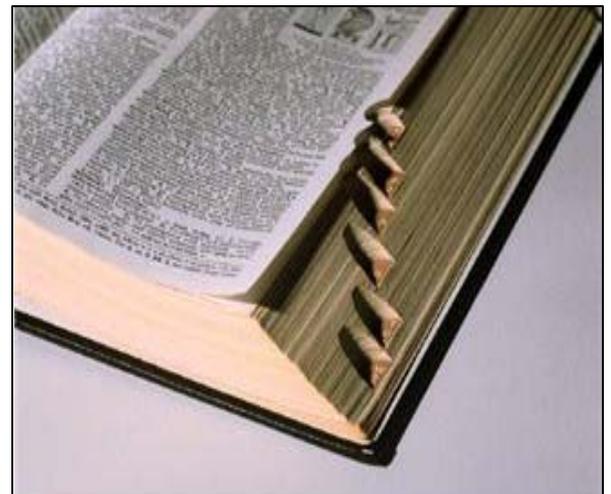
- **Rating per table 602**
- **Distances > 10' are rated for inside exposure only**
- **Distances < 10' are rated for exposure on both inside and outside.**

CHAPTER 10
MEANS OF EGRESS



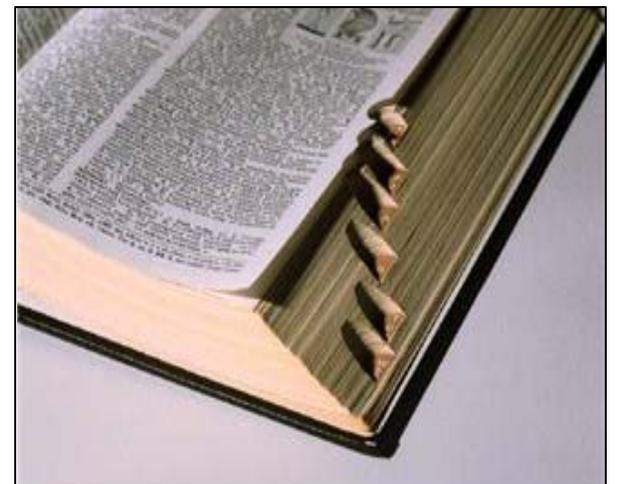
Definitions, Section 1002.1

- **Exit access doorway**
 - Door or POINT to measure separation in section 1015.
- **Photoluminescent**
 - Glow in the dark
no power source



Definitions, Section 1002.1

- **Self-luminous**
 - **Illuminated with independent non-battery power source**
- **Suite**
 - **Group of patient rooms with staff supervision**
see 1014.2.2-1014.2.7



Ceiling height, Section 1003.2

- Added exceptions to 7 feet 6 inches
 - Ramps 80 inches, 1010.5.2
 - Parking garage ramps
7 feet, 406.2.2
 - Below mezzanines
7 feet, 505.1

Two-way communication Section 1007.8

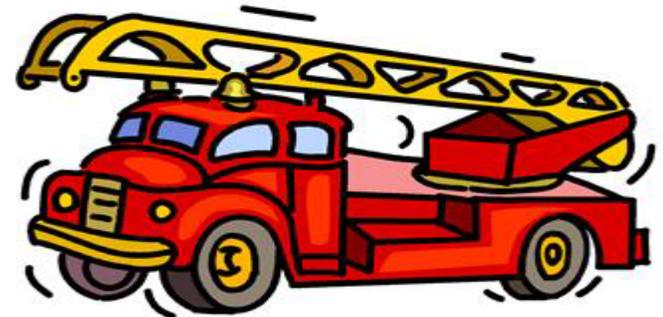
- **Two way communication required at elevator landings BIGGIE**
- **All elevator landings above/below story of exit discharge unless:**
 - **A ramp is provided**
 - **Area of refuge is provided (with communication)**



System requirements Section 1007.8.1

All Two-way communication

- **Must go to central control point or fire command center**
- **Time out to 911 or monitoring agency**
- **Post instructions**





Panic and fire exit hardware

Section 1008.1.10

- **Reformatted section**
- **Added requirements for listing**
 - **UL 305 for panic**
 - **UL 303 or UL10C for Fire exit**



Stairway to elevator equipment Section 1009.14

- **Fully compliant stairway to roof or penthouse for elevator equipment**



Exit signs, Section 1011.1

- **Required at intervening doors within exits**
- **Required every 100 foot spacing in exit passageways**
 - **Previously just corridors**





**Required in this exit
passageway**

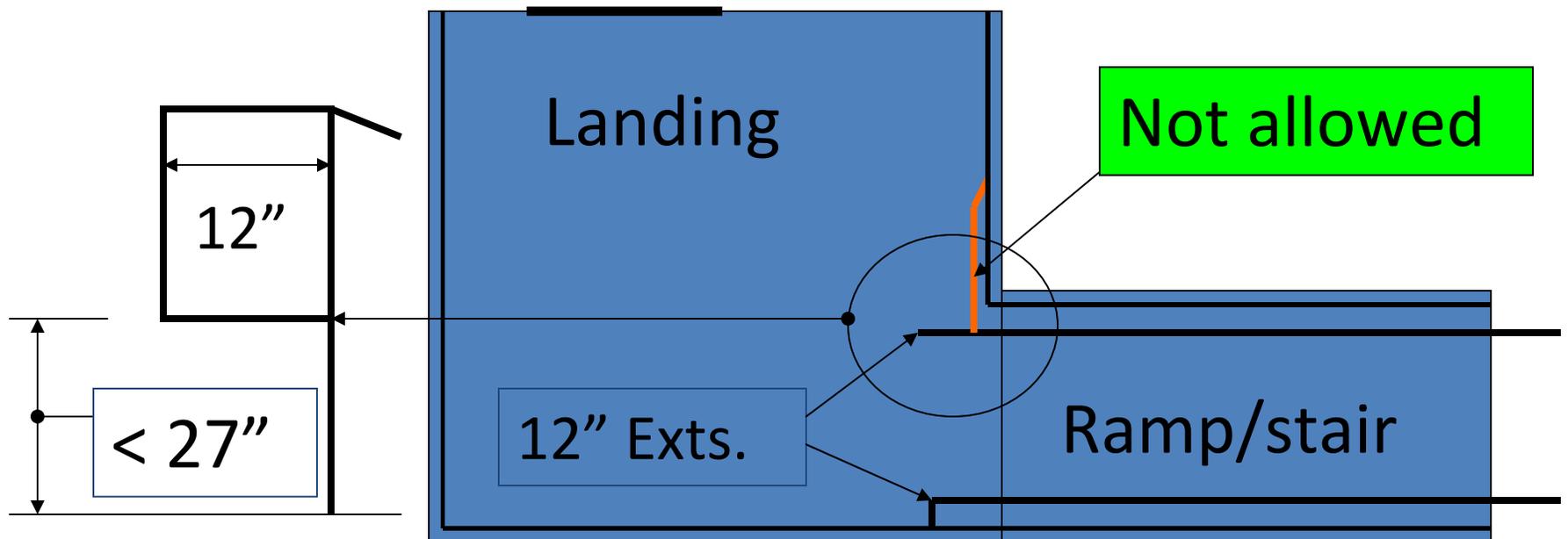
Internally illuminated exit signs, Section 1011.4

- **Self-luminous and photoluminescent exit signs included**
- **New reference to UL 924-06**



Handrail extensions, Section 1012.6

- Handrail extensions to follow ramp or stair direction



Common path of travel, Section 1014.3

- **R-2 occupancy 125 ft. common path of travel with NFPA 13R**
 - **Previously NFPA 13 only**

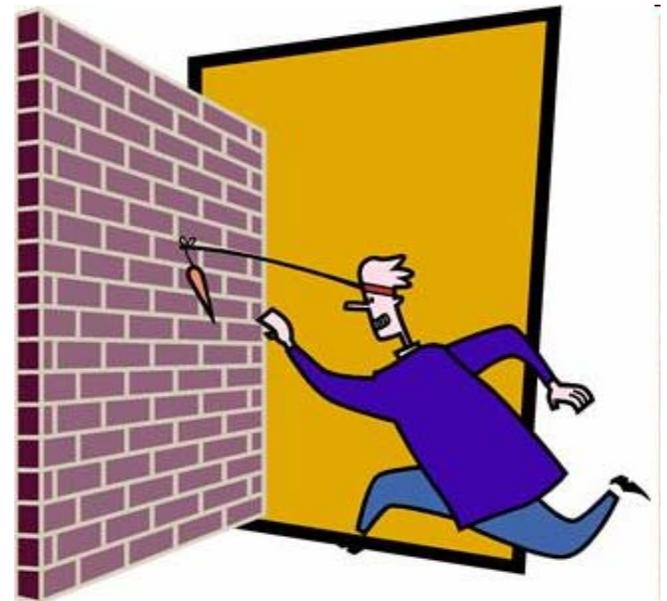
Exits or exit access doorways, Section 1015.1

- **R-2 unit to 20 occupants (4000 s.f.) can have one exit**
 - **Previously 10 occupant limit**



Dead Ends Section 1018.4

- Expanded exception #2 allowing 50' dead end corridors in sprinklered buildings
 - Was group B & F only
 - Now includes:
E, I-1, M, R, S & U



Number of Exits Section 1021

Cleaner and now completely story based

- **Buildings with one exit table 1019.2 in 2006 IBC**
 - **Now Stories with one exit (1021.2)**
 - **Coordinates with unenclosed exit access 1016.1 exception 3 & 4**
 - **Part of Ch. 10 evolution**

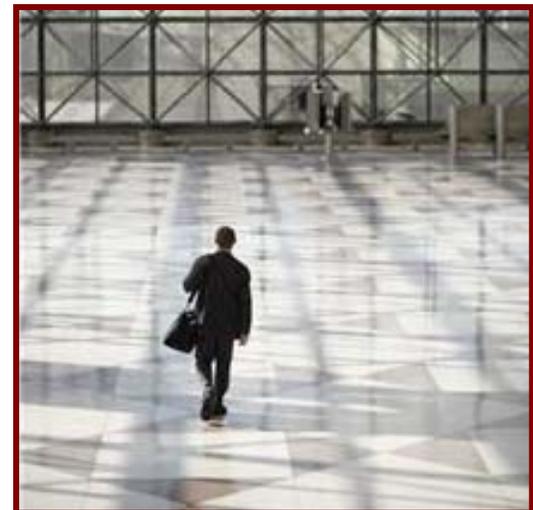


**TABLE 1021.2
STORIES WITH ONE EXIT**

STORY	OCCUPANCY	MAXIMUM OCCUPANTS (OR DWELLING UNITS) PER FLOOR AND TRAVEL DISTANCE
First story or basement	A, B ^d , E ^c , F ^d , M, U, S ^d	49 occupants and 75 feet travel distance
	H-2, H-3	3 occupants and 25 feet travel distance
	H-4, H-5, I, R	10 occupants and 75 feet travel distance
	S ^a	29 occupants and 100 feet travel distance
Second story	B ^b , F, M, S ^a	29 occupants and 75 feet travel distance
	R-2	4 dwelling units and 50 feet travel distance
Third story	R-2 ^c	4 dwelling units and 50 feet travel distance

Exit Discharge, Section 1027.1

- **Combined use of exceptions #1 and #2 cannot exceed 50% of the required exits.**
 - Ex. #1 is “lobbies”, sprinklered level of exit discharge
 - Ex. #2 is vestibules
- **Horizontal exit exception added.**



Foyers and lobbies (A1),

Section 1028.4

- **The physical separation between waiting areas in theater lobbies and means of egress from the theater was deleted.**



Chapter 11

ACCESSIBILITY



Employee Work Areas Section 1103.2.3

- **If the work area is less than 300 square feet and elevated more than 7 inches it is exempt. This is consistent with latest ADA Accessibility Guidelines.**

Live Work Units, Section 1103.2.13

- **Group R-2 Occupancies**
- **The nonresidential portion of the unit requires full accessibility for the intended use.**

Raised and lowered areas in places of religious worship, Section 1103.2.16

- **Not required to be accessible provided such areas are used exclusively for the performance of religious ceremonies and located in an accessible story or mezzanine.**

VIRGINIA CHANGE



Companion seats, Section 1108.2.3

- **New section**
- **Each wheelchair space must be adjacent to at least one companion seat**

Courtrooms, Sections 1108.4.1 thru 1108.4.1.5

- **All courtrooms are required to be accessible for participants at every level.**
- **Jury Box, Gallery Seating, Assistive Listening Systems, Employee Work Stations and other Work Stations.**

“Family or Assisted” use toilet rooms

- Section 1109.2.1
 - Groups A and M
 - Required where aggregate of 6 or more male and female water closets is required.
 - Referenced in Plumbing code
 - Proper identification is required (sign)



**FAMILY
RESTROOM**

NFPA 101-103

Lavatories, Section 1109.2.3

- **Clarification- lavatories as particular type of sink, where provided, at least 5 % but not less than 1 shall be accessible.**
- **New Requirement-In large facilities where 6 or more lavatories within one toilet facility, 1 must be provided with enhanced reach requirements for faucet controls.**

Operable Window, Section 1109.12.1

- **Required in Accessible and Type A dwelling and sleeping units in Group I-1, I-2, R-1, R-2 and R-4 occupancies.**
- **Operable windows in kitchen and bathrooms are exempted.**

