

CTC Open Stairway 2012 Code Change Proposal

In Progress: 07-05-2011

Draft for CTC July 21 & 22, 2011 meeting

SECTION 712

VERTICAL OPENINGS

712.1 General. The provisions of this section shall apply to the vertical opening applications listed in Sections 712.1.1 through 712.1.18.

712.1.1 Shaft enclosures. Vertical openings contained entirely within a shaft enclosure complying with Section 713 shall be permitted.

712.1.12 ~~Unenclosed~~ Exit access stairways and ramps. Vertical floor openings ~~created by unenclosed~~ containing exit access stairways or ramps in accordance with ~~Sections 1009.2 and 1009.3~~ Section 1018 shall be permitted.

SECTION 713

SHAFT ENCLOSURES

713.1 General. The provisions of this section shall apply to shafts required to protect openings and penetrations through floor/ceiling and roof/ceiling assemblies. ~~Exit access stairways and exit access ramps shall be protected in accordance with the applicable provisions of Section 1009.~~ Interior exit stairways and interior exit ramps shall be protected in accordance with the requirements of Section 1022.

SECTION 1001

ADMINISTRATION

1001.2 Minimum requirements. It shall be unlawful to alter a building or structure in a manner that will reduce the number of exits or the capacity of the means of egress to less than required by this code. Means of egress shall be designed to be continuous and unobstructed.

SECTION 1009 STAIRWAYS

1009.1 General. Stairways serving occupied portions of a building shall comply with the requirements of this section.

~~**1009.2 Interior exit stairways.** Interior exit stairways shall lead directly to the exterior of the building or shall be extended to the exterior of the building with an exit passageway conforming to the requirements of Section 1023, except as permitted in Section 1027.1.~~

~~**1009.2.1 Where required.** Interior exit stairways shall be included, as necessary, to meet one or more means of egress design requirements, such as required number of exits or exit access travel distance.~~

~~**1009.2.2 Enclosure.** All interior exit stairways shall be enclosed in accordance with the provisions of Section 1022.~~

(Relocated to new Section 1018.3)

~~**1009.3 Exit access stairways.** Floor openings between stories created by exit access stairways shall be enclosed.~~

Exceptions:

- ~~1. In other than Group I-2 and I-3 occupancies, exit access stairways that serve, or atmospherically communicate between, only two stories, are not required to be enclosed.~~
- ~~2. Exit access stairways serving and contained within a single residential dwelling unit or sleeping unit in Group R-1, R-2 or R-3 occupancies are not required to be enclosed.~~
- ~~3. In buildings with only Group B or M occupancies, exit access stairway openings are not required to be enclosed provided that the building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1, the area of the floor opening between stories does not exceed twice the horizontal projected area of the exit access stairway, and the opening is protected by a draft curtain and closely spaced sprinklers in accordance with NFPA 13.~~
- ~~4. In other than Groups B and M occupancies, exit access stairway openings are not required to be enclosed provided that the building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1, the floor opening does not connect more than four stories, the area of the floor opening between stories does not exceed twice the horizontal projected area of the exit access stairway, and the opening is protected by a draft curtain and closely spaced sprinklers in accordance with NFPA 13.~~
- ~~5. Exit access stairways within an atrium complying with the provisions of Section 404 are not required to be enclosed.~~
- ~~6. Exit access stairways and ramps in open parking garages that serve only the parking garage are not required to be enclosed.~~
- ~~7. Stairways serving outdoor facilities where all portions of the means of egress are essentially open to the outside are not required to be enclosed.~~
- ~~8. Exit access stairways serving stages, platforms and technical production areas in accordance with Sections 410.6.2 and 410.6.3 are not required to be enclosed.~~
- ~~9. Stairways are permitted to be open between the balcony, gallery or press box and the main assembly floor in occupancies such as theaters, places of religious worship, auditoriums and sports facilities.~~
- ~~10. In Group I-3 occupancies, exit access stairways constructed in accordance with Section 408.5 are not required to be enclosed.~~

~~**1009.3.1 Construction.** Where required, enclosures for exit access stairways shall be constructed in accordance with this section. Exit access stairway enclosures shall be constructed as fire barriers in accordance with Section 707 or horizontal assemblies in accordance with Section 711, or both.~~

~~**1009.3.1.1 Materials.** Exit access stairway enclosures shall be of materials permitted by the building type of construction.~~

~~**1009.3.1.2 Fire-resistance rating.** Exit access stairway enclosures shall have a fire-resistance rating of not less than 2 hours where connecting four stories or more, and not less than 1 hour where connecting less than four stories. The number of stories connected by the exit access stairway enclosures shall include any basements, but not any mezzanines. Exit access stairway enclosures shall have a fire-resistance rating not less than the floor assembly penetrated, but need not exceed 2 hours.~~

~~**1009.3.1.3 Continuity.** Exit access stairway enclosures shall have continuity in accordance with Section 707.5 for fire barriers or Section 711.4 for horizontal assemblies as applicable.~~

~~**1009.3.1.4 Openings.** Openings in an exit access stairway enclosure shall be protected in accordance with Section 716 as required for fire barriers. Doors shall be self- or automatic-closing by smoke detection in accordance with Section 716.5.9.3.~~

~~**1009.3.1.4.1 Prohibited openings.** Openings other than those necessary for the purpose of the exit access stairway enclosure shall not be permitted in exit access stairway enclosures.~~

~~**1009.3.1.5 Penetrations.** Penetrations in an exit access stairway enclosure shall be protected in accordance with Section 714 as required for fire barriers.~~

~~**1009.3.1.5.1 Prohibited penetrations.** Penetrations other than those necessary for the purpose of the exit access stairway enclosure shall not be permitted in exit access stairway enclosures.~~

~~**1009.3.1.6 Joints.** Joints in an exit access stairway enclosure shall comply with Section 715.~~

~~**1009.3.1.7 Ducts and air transfer openings.** Penetrations of an exit access stairway enclosure by ducts and air transfer openings shall comply with Section 717.~~

~~**1009.3.1.8 Exterior walls.** Where exterior walls serve as a part of an exit access stairway enclosure, such walls shall comply with the requirements of Section 705 for exterior walls and the fire-resistance-rated enclosure requirements shall not apply.~~

1009.2 1009.4 Width. Stairway width. The width of *stairways* shall be determined as specified in Section 1005.1, but such width shall not be less than 44 inches (1118 mm). See Section 1007.3 for *accessible means of egress stairways*.

Exceptions:

1. *Stairways* serving an *occupant load* of less than 50 shall have a width of not less than 36 inches (914 mm).
2. *Spiral stairways* as provided for in Section ~~1009.12~~ 1009.10.
3. *Aisle stairs* complying with Section 1028.
4. Where an incline platform lift or stairway chairlift is installed on *stairways* serving occupancies in Group R-3, or within dwelling units in occupancies in Group R-2, a clear passage width not less than 20 inches (508 mm) shall be provided. If the seat and platform can be folded when not in use, the distance shall be measured from the folded position.

Renumber remaining sections.

SECTION 1010 RAMPS

~~**1010.2 Enclosure.** All interior exit ramps shall be enclosed in accordance with the applicable provisions of Section 1022. Exit access ramps shall be enclosed in accordance with the provisions of Section 1009.3 for enclosure of stairways.~~

Renumber remaining sections

SECTION 1011 EXIT SIGNS

1011.1 Where required. *Exits* and *exit access doors* doorways shall be marked by an *approved exit* sign readily visible from any direction of egress travel. The path of egress travel to *exits* and within *exits* shall be marked by readily visible *exit* signs to clearly indicate the direction of egress travel in cases where the *exit* or the path of egress travel is not immediately visible to the occupants. Intervening *means of egress* doors within *exits* shall be marked by *exit* signs. *Exit* sign placement shall be such that no point in an *exit access corridor* or *exit passageway* is more than 100 feet (30 480 mm) or the *listed* viewing distance for the sign, whichever is less, from the nearest visible *exit* sign.

Exceptions:

1. *Exit* signs are not required in rooms or areas that require only one *exit* or *exit access*.
2. Main exterior *exit* doors or gates that are obviously and clearly identifiable as *exits* need not have *exit* signs where *approved* by the *building official*.
3. *Exit* signs are not required in occupancies in Group U and individual sleeping units or dwelling units in Group R-1, R-2 or R-3.

4. *Exit* signs are not required in dayrooms, sleeping rooms or dormitories in occupancies in Group I-3.
5. In occupancies in Groups A-4 and A-5, *exit* signs are not required on the seating side of vomitories or openings into seating areas where *exit* signs are provided in the concourse that are readily apparent from the vomitories. Egress lighting is provided to identify each vomitory or opening within the seating area in an emergency.

SECTION 1015 EXITS AND EXIT ACCESS DOORWAYS

1015.1 Exits or exit access doorways from spaces. Two exits or exit access doorways from any space or mezzanines shall be provided where one of the following conditions exists:

1. The *occupant load* of the space exceeds one of the values in Table 1015.1.

Exceptions:

1. In Group R-2 and R-3 occupancies, one *means of egress* is permitted within and from individual dwelling units with a maximum *occupant load* of 20 where the dwelling unit is equipped throughout with an *automatic sprinkler system* in accordance with Section 903.3.1.1 or 903.3.1.2.
2. Care suites in Group I-2 occupancies complying with Section 407.4.3.
2. The *common path of egress travel* exceeds one of the limitations of Section 1014.3.
3. Where required by Section 1015.3, 1015.4, 1015.5, or 1015.6.

Where a building contains mixed occupancies, each individual occupancy shall comply with the applicable requirements for that occupancy. Where applicable, cumulative occupant loads from adjacent occupancies shall be considered in accordance with the provisions of Section 1004.1.

1015.2 Exit or exit access doorway arrangement. ~~Required exits shall be located in a manner that makes their availability obvious. Exits shall be unobstructed at all times. Exits, and exit access doorways, unenclosed exit access stairways or unenclosed exit access ramps shall be located in a manner that makes their availability obvious and shall be arranged in accordance with Sections 1015.2.1 and 1015.2.2.~~

1015.2.1 Two exits or exit access doorways. Where two *exits* or *exit access doorways* are required from any portion of the *exit access*, the *exit* doors or *exit access doorways* shall be placed a distance apart equal to not less than one-half of the length of the maximum overall diagonal dimension of the building or area to be served measured in a straight line between *exit* doors or *exit access doorways*. Where unenclosed exit access stairways or ramps are part of the means of egress, the distance apart shall be measured to the closest riser of an exit access stairway or closest slope of an exit access ramp. No portion of an exit access stairway or ramp

that provides required access to an exit at another story shall be closer than the required separation distance to another required exit access stairway or ramp. Interlocking or *scissor stairs* shall be counted as one *exit stairway*.

Exceptions:

1. Where interior exit stairways are interconnected by a 1-hour fire-resistance-rated corridor conforming to the requirements of Section 1018, the required exit separation shall be measured along the shortest direct line of travel within the corridor.
2. Where a building is equipped throughout with an *automatic sprinkler system* in accordance with Section 903.3.1.1 or 903.3.1.2, the separation distance of the *exit doors* or *exit access doorways* shall not be less than one-third of the length of the maximum overall diagonal dimension of the area served.

1015.2.2 Three or more exits or exit access doorways. Where access to three or more *exits* is required, at least two *exit doors* or *exit access doorways* shall be arranged in accordance with the provisions of Section 1015.2.1. Additional required exit or exit access doorways shall be arranged a reasonable distance apart so that if one becomes, blocked, the others will be available.

SECTION 1016 EXIT ACCESS TRAVEL DISTANCE

1016.3 Measurement. Exit access travel distance shall be measured from the most remote point within a story along the natural and unobstructed path of horizontal and vertical egress travel to the entrance to an exit.

Exceptions:

1. In open parking garages, exit access travel distance is permitted to be measured to the closest riser of an exit access stairway or the closest slope of an exit access ramp.
2. ~~In outdoor facilities with open exit access components, exit access travel distance is permitted to be measured to the closest riser of an exit access stairway or the closest slope of an exit access ramp.~~

SECTION 1018 EXIT ACCESS STAIRWAYS AND RAMPS

1018.1 General. Exit access stairways and ramps serving as an exit access component in a means of egress system shall comply with the requirements of this section. The number of stories connected by exit access stairways and ramps shall include any basements, but not any mezzanines.

1018.2 All occupancies. Exit access stairways and ramps that serve floor levels within a single story are not required to be enclosed.

1018.3 1009.3 Occupancies other than Group I-2 and I-3. Exit access stairways.

Floor openings between stories created by exit access stairways shall be enclosed. In other than Group I-2 and I-3 occupancies, floor openings between stories containing exit access stairways and ramps shall not be required to be enclosed where any one of the following conditions is met:

Exceptions:

1. ~~In other than Group I-2 and I-3 occupancies, Exit access stairways and ramps that serve, or atmospherically communicate between, only two stories, are not required to be enclosed.~~
2. In Group R-1, R-2 or R-3 occupancies, exit access stairways and ramps connecting four stories or less serving and contained within a single residential an individual dwelling unit or sleeping unit in Group R-1, R-2 or R-3 occupancies are not required to be enclosed.
3. ~~In buildings with only Group B or M occupancies, Exit access stairways and ramps in openings are not required to be enclosed provided that the buildings is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1, where the area of the floor vertical opening between stories does not exceed twice the horizontal projected area of the exit access stairway or ramp, and the opening is protected by a draft curtain and closely spaced sprinklers in accordance with NFPA 13. In other than Groups B and M occupancies, this provision is limited to openings that do not connect more than four stories.~~
4. ~~In other than Groups B and M occupancies, exit access stairway openings are not required to be enclosed provided that the building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1, the floor opening does not connect more than four stories, the area of the floor opening between stories does not exceed twice the horizontal projected area of the exit access stairway, and the opening is protected by a draft curtain and closely spaced sprinklers in accordance with NFPA 13.~~
- 4.5. Exit access stairways and ramps within an atrium complying with the provisions of Section 404 are not required to be enclosed.
- 5.6. Exit access stairways and ramps in open parking garages that serve only the parking garage are not required to be enclosed.
- 6.7. Exit access stairways and ramps serving outdoor facilities where all portions of the means of egress are essentially open to the outside are not required to be enclosed open-air seating complying with the exit access travel distance requirements of Section 1028.7.
8. Exit access stairways serving stages, platforms and technical production areas in accordance with Sections 410.6.2 and 410.6.3 are not required to be enclosed.
- 7.9. Exit access stairways and ramps are permitted to be open between the balcony,

~~gallery or press box~~ gallery or press box serving balconies, galleries or press boxes and the main assembly floor in occupancies such as theaters, places of religious worship, auditoriums and sports facilities where provided with smoke-protected assembly seating.

~~10. In Group I-3 occupancies, exit access stairways constructed in accordance with Section 408.5 are not required to be enclosed.~~

1018.4 Group I-2 and I-3 occupancies. In Group I-2 and I-3 occupancies, floor openings between stories containing exit access stairways or ramps shall be enclosed.

Exception: In Group I-3 occupancies, exit access stairways or ramps constructed in accordance with Section 408 are not required to be enclosed.

1018.5 1009.3.1 Enclosure required. Construction. Where required, enclosures for exit access stairways shall be constructed in accordance with this section. Exit access stairway enclosures shall be constructed as fire barriers in accordance with Section 707 or horizontal assemblies in accordance with Section 711, or both. Where floor openings between stories containing exit access stairways and ramps are required to be enclosed in accordance with Section 1018.3 or 1018.4, the floor openings shall be protected with shaft enclosures constructed in accordance with Section 713.

Renumber Subsequent Sections

(This will be Section 1022)

SECTION 1021 NUMBER OF EXITS AND EXIT CONFIGURATION

1021.1 General. Each story and occupied roof shall have the minimum number of independent exits, or access to exits, as specified in ~~this section~~ Table 1021.1. A single exit or access to a single exit shall be permitted in accordance with Section 1021.2. The required number of exits, or exit access stairways or ramps providing access to exits, from any story shall be maintained until arrival at grade or a public way the exit discharge. Exits or access to exits from any story shall be configured in accordance with this section. Each story above the second story of a building shall have a minimum of one interior or exterior exit stairway, or interior or exterior exit ramp. At each story above the second story that requires a minimum of three or more exits, or access to exits, a minimum of 50 percent of the required exits shall be interior or exterior exit stairways, or interior or exterior exit ramps.

Exceptions:

- ~~1. Interior exit stairways and interior exit ramps are not required in open parking garages where the means of egress serves only the open parking garage.~~
- ~~2. Interior exit stairways and interior exit ramps are not required in outdoor facilities where all portions of the means of egress are essentially open to the outside.~~

TABLE 1021.1 **MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS PER STORY**

<u>Occupant Load per Story</u>	<u>Minimum Number of Exits or Access to Exits From Story</u>
<u>1-500</u>	<u>2</u>
<u>501-1,000</u>	<u>3</u>
<u>More than 1,000</u>	<u>4</u>

1021.2 Single exits from stories. ~~A single exit or access to a single exit shall be permitted. Two exits, or exit access stairways or ramps providing access to exits, from any story or occupied roof, shall be provided where one of the following conditions exists:~~

- ~~1. The occupant load, or number of dwelling units and exit access travel distance does not exceed one of the values in Table 1021.2(1) or 1021.2(2).~~
- ~~2. The exit access travel distance exceeds that specified in Table 1021.2(1) or 1021.2(2) as determined in accordance with the provisions of Section 1016.1.~~
- ~~3. Helistop landing areas located on buildings or structures shall be provided with two exits, or exit access stairways or ramps providing access to exits.~~

Exceptions:

- ~~4.2.~~ Rooms, areas and spaces complying with Section 1015.1 with exits that discharge directly to the exterior at the level of exit discharge, are permitted to have one exit or access to a single exit.
- ~~2.3.~~ Group R-3 occupancy buildings shall be permitted to have one exit.
- ~~3.4.~~ Parking garages where vehicles are mechanically parked shall be permitted to have one exit or access to a single exit,
- ~~4. Air traffic control towers shall be provided with the minimum number of exits specified in Section 412.3.~~
- ~~5. Individual dwelling units in compliance with Section 1021.2.3.~~
- ~~5.6.~~ Group R-3 and R-4 congregate residences shall be permitted to have one exit or access to a single exit.

~~6. 1021.2.3 Single-story or multi-story dwelling units.~~ Individual single-story or multi-story dwelling units shall be permitted to have a single exit or access to a single exit within and from the dwelling unit provided that all of the following criteria are met:

- 6.1 The dwelling unit complies with Section 1015.1 as a space with one means of egress and
- 6.2 Either the exit from the dwelling unit discharges directly to the exterior at the level

of exit discharge, or the exit access outside the dwelling unit's entrance door provides access to not less than two approved independent exits.

7. Exits serving specific spaces or areas need not be accessed by the remainder of the story when all of the following are met:

7.1. The number of exits from the entire story complies with Section 1021.2.4;

7.2. The access to exits from each individual space in the story complies with Section 1015.1; and

7.3. All spaces within each portion of a story shall have access to the minimum number of approved independent exits based on the occupant load of that portion of the story but not less than two exits.

**TABLE 1021.2(1)
STORIES WITH ONE EXIT OR ACCESS TO ONE EXIT FOR R-2 OCCUPANCIES**

STORY	OCCUPANCY	MAXIMUM NUMBER OF DWELLING UNITS	MAXIMUM EXIT ACCESS TRAVEL DISTANCE
Basement, first, second or third story <u>above grade plane</u>	R-2 ^{a, b}	4 dwelling units	125 feet
Fourth story <u>above grade plane</u> and <u>higher above</u>	NP	NA	NA

For SI: 1 foot = 3048 mm.

NP – Not Permitted

NA – Not Applicable

a. Buildings classified as Group R-2 equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2 and provided with emergency escape and rescue openings in accordance with Section 1029.

b. This Table is used for R-2 occupancies consisting of dwelling units. For R-2 occupancies consisting of sleeping units, use Table 1021.2(2).

**TABLE 1021.2(2)
STORIES WITH ONE EXIT OR ACCESS TO ONE EXIT FOR OTHER OCCUPANCIES**

STORY	OCCUPANCY	MAXIMUM OCCUPANTS STORY	MAXIMUM EXIT ACCESS TRAVEL DISTANCE
First story <u>above or below grade plane</u> <u>basement</u>	A, B ^b , E F ^b , M, U, S ^b	49 occupants	75 feet
	H-2, H-3	3 occupants	25 feet
	H-4, H-5, I, R-1, R-2 ^{a, c} , R-4	10 occupants	75 feet
	S	29 occupants	100 feet
Second story <u>above</u>	B, F, M, S	29 occupants	75 feet

<u>grade plane</u>			
Third story <u>above grade plane and above-higher</u>	NP	NA	NA

For SI: 1 foot = 304.8 mm.

NP – Not Permitted

NA – Not Applicable

- a. Buildings classified as Group R-2 equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2 and provided with emergency escape and rescue openings in accordance with Section 1029.
- b. Group B, F and S occupancies in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 shall have a maximum travel distance of 100 feet.
- c. This Table is used for R-2 occupancies consisting of sleeping units. For R-2 occupancies consisting of dwelling units, use Table 1021.2(1).

1021.2.1 Mixed occupancies. Where one exit, or exit access stairway or ramp providing access to exits at other stories, is permitted to serve individual stories, mixed occupancies shall be permitted to be served by single exits provided each individual occupancy complies with the applicable requirements of Table 1021.2(1) or Table 1021.2(2) for that occupancy. Where applicable, cumulative occupant loads from adjacent occupancies shall be considered in accordance with the provisions of Section 1004.1. In each story of a mixed occupancy building, the maximum number of occupants served by a single exit shall be such that the sum of the ratios of the calculated number of occupants of the space divided by the allowable number of occupants for each occupancy does not exceed one. Where dwelling units are located on a story with other occupancies, the maximum combined number of dwelling units and occupants served by a single exit shall be that the sum of the ratios of the calculated number of occupants of the space divided by the allowable number of occupants indicated in Table 1012.3(1) for each occupancy plus the actual number of dwelling units divided by 4 does not exceed one

1021.2.2 Exits from specific space. Exits serving specific spaces or areas need not be accessed by the remainder of the story when all of the following are met:

1. The number of exits from the entire story complies with Section 4021.4.1 1021.1;
2. The access to exits from each individual space in the story complies with Section 1015.1; and
3. All spaces within each portion of a story shall have access to the minimum number of approved independent exits based on the occupant load of that portion of the story but not less than two exits.

1021.2.2 Basements. ~~A basement provided with one exit shall not be located more than one story below grade plane.~~

~~**1021.2.3 Single-story or multi-story dwelling units.** Individual single-story or multi-story dwelling units shall be permitted to have a single exit within and from the dwelling unit provided that all of the following criteria are met:~~

- ~~1. The dwelling unit complies with Section 1015.1 as a space with one means of egress and~~
- ~~2. Either the exit from the dwelling unit discharges directly to the exterior at the level of exit discharge, or the exit access outside the dwelling unit's entrance door provides access to not less than two approved independent exits.~~

~~**1021.2.4 Three or more exits.** Three exits, or exit access stairways or ramps providing access to exits at other stories, shall be provided from any story or occupied roof with an occupant load of 501-1,000. Four exits, or exit access stairways or ramps providing access to exits at other stories, shall be provided from any story or occupied roof with an occupant load greater than 1,000.~~

~~**1021.2.5 Additional exits.** In buildings over 420 feet in height, additional exits shall be provided in accordance with Section 403.5.2.~~

~~**1021.3 Exit configuration.** Exits, or exit access stairways or ramps providing access to exits at other stories, shall be arranged in accordance with the provisions of Section 1015.2 through 1015.2.2. Exits shall be continuous from the point of entry into the exit to the exit discharge.~~

~~**1021.3.1 Access to exits at adjacent levels.** Access to exits at other levels shall be by stairways or ramps. Where access to exits occurs from adjacent building levels, the horizontal and vertical exit access travel distance to the closest exit shall not exceed that specified in Section 1016.1. Access to exits at other levels shall be from an adjacent story.~~

~~**Exception:** Landing platforms or roof areas for helistops that are less than 60 feet (18 288 mm) long, or less than 2,000 square feet (186 m²) in area, shall be permitted to access the second exit by a fire escape, alternating tread device or ladder leading to the story or level below.~~

~~**1021.3 1021.4 Vehicular ramps.** Vehicular ramps shall not be considered as an exit access ramp unless pedestrian facilities are provided.~~

SECTION 1028 ASSEMBLY

~~**1028.5 Interior balcony and gallery means of egress.** For balconies, galleries or press boxes having a seating capacity of 50 or more located in a building, room or space used for assembly purposes, at least two means of egress shall be provided, with one from each side of every balcony, gallery or press box and at least one leading directly to an exit.~~

Reason statement:

The main purpose of this code change proposal is for coordination between the open stairway code change from this committee for the last cycle (E5-09/10) and other changes that occurred during the same cycle. In addition, there were areas that needed to be clarified as part of coordination. The committee also wanted to look at the concerns in the Public Comments to address any issues raised there that they thought may not have been covered.

712.1.12 – The proposal will move when enclosures for exit access stairways are required into its own section, similar to enclosures for exit stairways. This is coordination with that move.

713.1 – The enclosure requirements for exit access stairways now reference Section 713 for requirements rather than repeating the requirements, therefore this sentence is not needed.

1001.2 – The additional sentence is needed for maintenance and coordination with IFC. This is repeated in several means of egress sections and should be a general design requirement.

1009.2, 1009.2.1, 1009.2.2 – Deleted. Exit stairway enclosures are address in 1022.

1009.3 – Relocated to new Section 1018 for exit access stairways to have their own enclosure section similar to exit stairways in Section 1022.

1009.3.1 through 1009.3.1.8 – Deleted. New section 1018.3 will reference Section 713 for floor opening enclosure. Not needed to be repeated here.

1010.2 – Deleted to be consistent with exit access and exit stairways.

1011.1 – Revised to use a defined term – exist access doorways

1015.1 – Revised to include mezzanines to clarify a mezzanine is a space, not a story, for purposes of means of egress. This also clarifies the 2012 IBC revision to Section 505 where mezzanines now reference Chapter 10 for means of egress.

1015.2 – Revise. 1st sentence moved down to include all narrowing points for moe. 2nd sentence moved to 1001.1. Additional items are for including where there might not be door.

1015.2.1 – Two new sentences. 1st – clarify how to measure the separation of exit access stairways or ramps on the egress floor. 2nd – there is a concern that two open stairways may converge as they move down to the next floor. The proposed language will keep the open exit access stairways the same distance apart as required when the left the egress floor.

1015.2.2 – Separation for the 3rd exit was deleted by E82-04/05. The committee felt the language should be reinserted because now there is no language to describe where additional exits are located.

1016.3 – Deletion eliminates conflicts. Section 1028.7 Exception 2 requires egress to the exterior.

New 1018.1 – Need general scoping for new section for enclosure for exit access stairways or ramps.

New 1018.2 - Clarifies that steps between levels, rather than stories, are always permitted to be open.

New 1018.3 (relocated 1009.3) – Text relocated from 1009.3, but approach reversed to positive for when open stairways are permitted rather than an exception for the enclosure requirements. Group I-2 and I-2 are addressed in new Section 1018.4.

Item 1 – Group I-2 and I-3 addressed in Section 1018.4

Item 2 – Reordering of works

Item 3 – Limits opening similar to those similar to escalators. Combine old Exception 3 and 4 for clarity.

New Item 4 – Add ‘and ramps’ for consistency in this section and application.

New Item 6 – This section is typically only used for large assembly facilities. This revision will narrow it down for specifics

Existing Item 8 – Deleted. This is a level change, not a story, so this is addressed in new 1018.2 and 410.

New Item 7 - Coordination with assembly seating for areas larger than mezzanines. For smaller assembly, the balcony will qualify for the mezzanine exception.

Existing Item 10 – Moved to 1018.4

New 1018.4 – Relocated Group I-2 and I-3 for clarity. Consistent with the defend in place strategy used for these types of facilities.

New 1018.5 - If you cannot meet one of the items, then go to 713 for shaft enclosures. Not repeating requirements like in 1009.3.1 through 1009.3.1.8.

1021.1 – Add the word ‘independent’ for clarity. Move requirements for number of MOE back to the table format for clarity and ease of reference for other requirements. Exceptions are not needed since the number required is based on exit and/or access to exits. Open parking and outdoor stadiums are exit access stairways from each floor above grade.

New Table 1021.1 – move requirements from 1021.1 and 1021.2.4 into Table format. Extend allowances to be number of exits and/or number of access to exits (i.e., exit access doorways, exit access stairways, exit access ramps).

1021.2 – revise language for positive where permitted approach rather than exceptions.

Item 1 & 2 – combined

Existing item 3 – deleted because already addressed in 412.7.3 – need to be consistent in references for MOE

New Item 2 and 4 – revised for exit and exit access

Existing Exception 4 – deleted because already addressed in 412.3 - need to be consistent in references for MOE

Existing Exception 5 - addressed in new Item 6

New Item 5 - revised for exit and exit access

New Item 6 – revised for exit and exit access; relocated from 1021.2.3. No reason to be separate section.

Existing Exception 7 – Since this is exit configuration, not single exit, it has been relocated to new 1021.2.2.

Table 1021.2(1) and 1021.2(2) – Revise headings to limit number of basements to 1.

1021.2.1 – The additional sentence adopts the same ratio formula currently in the code but addresses what you would do when dwelling units were in the mix (i.e., there is no occupant load).

New 1021.2.2 - Was Section 1021.2 Exception 7. Relocated since this is exit configuration for situations where one exit may be within a tenant space and blocked from access from other tenants on the floor.

Existing 1021.2.2 - Deleted. Basements are now addressed in Table 1021.2(1) and 1021.2(2) so not needed here.

Existing 1021.2.3 – deleted and relocated to 1021.2 new Item 6.

Existing 1021.2.4 – deleted and relocated to Table 1021.1

Existing 1021.2.5 – deleted –3rd stairway is not a required means of egress stairway and already addressed in 403.5.2. Committee feels that you should either reference all MOE in Chapter 4 or rely on Chapter 4 and not reference anything.

Existing 1021.3 - Delete. Now addressed in 1015.2 and 1015.2.1

Existing 1021.3.1 - Delete. Now addressed in 1015.2 and 1015.2.1. Helistops in exception are addressed in 412.7.3.

1028.5 – The deletion is due to misinterpretations that enclosed exit stairways were required when exit access stairways were permitted.