# CODE SUMMARY (CONT.)

**VI. EGRESS (CONT.)**

5. Open guards shall have balusters or ornamental patterns such that a 4-inch diameter sphere cannot pass through any opening up to a height of 34 inches. From a height of 34 inches to 42 inches above adjacent walking surfaces, a sphere 8 inches in diameter shall not pass. (IBC 1013.3, LSC 7.2.2.4.5.3)

6. Balconies used for egress purposes shall conform to the same requirements as corridors for width, headroom, dead ends and projections.(IBC 1014.5)

P. Assembly Occupancy Requirements

1. The main theatre seating area shall be provided with a main exit. Main exit shall be sufficiently wide enough to accommodate not less than one-half the total occupant, but shall not be less than the total required width of means of egress leading to the exit. The main exit shall front on at least one street or an unoccupied space of not less than 10 feet in width that adjoins a street or public way.(IBC 1025.2, LSC 12.2.3.6.2 & 12.2.3.6.6)

Exception: In assembly occupancies, where there is no well defined main exit are provided, exits shall be permitted to be distributed around the perimeter of the building provided that the total width of egress is not less than 100 percent of the required width. (IBC 1025.2, LSC 12.2.3.6.2 & 12.2.3.6.6)

2. Each level having an occupant load of greater than 300 shall be provided with additional exits that shall provide an egress capacity for at least one-half of the total occupant load (IBC 1025.3, LSC 12.2.3.7).

3. For balconies or galleries having a seating capacity of more than 50 in Use Group A1 occupancies, at least two means of egress shall be provided, one from each side of every balcony or gallery, with at least one leading directly to an exit. (IBC 1025.5, LSC 12.2.4.5 & 12.2.4.7)

4. Interior stairways and other vertical openings shall be enclosed in a vertical exit enclosure as provided in 1020.1, except that stairways are permitted to be open between the balcony and the main assembly floor in a theatre occupancy. At least one accessible means of egress is required from a balcony or gallery level containing accessible seating locations in accordance with section 1007.3 or 1007.4 (IBC 1025.5.1)

5. The clear width of the means of egress shall provide sufficient capacity. At least 0.3 inches of width for each occupant served shall be provided on stairs having riser heights 7 inches or less and tread depths of 11 inches, measured between tread nosing. (IBC 1025.6.1, LSC 12.2.3.2)

6. Where riser height is greater than 7 inches, the required width shall be multiplied by a factor of A. Where A=1+(Riser height - 7)/5. (LSC 12.2.3.3)

7. Where aisles are provided for seating, the travel distance to an exit door shall be measured along the aisles and aisle accessway without travel over or on the seats. (IBC 1025.7)

8. The common path of travel shall not exceed 20 feet from any seat to a point where a person has a choice of two paths of egress travel to two exits. (LSC 12.2.5.1.2)

9. Where one of the two paths of travel is across the aisle through a row of seats to another aisle, there shall be not more than 24 seats between the two aisles, and the minimum clear width between rows for the row between the two aisles shall be 12 inches plus 0.6 inch for each additional seat above seven in the row between aisles. (IBC 1025.8.1)

10. Every occupied portion of any occupancy in Use Group A1 that contains seats, tables, displays, similar fixtures or equipment shall be provided with aisles leading to exits or exit access doorways. (IBC 1025.9, LSC 12.2.5.4.2 & 12.2.5.4.3)

11. Aisle Width (IBC 1025.9.1, LSC 12.2.5.6.3)
    48" for aisle stairs having seating on each side. (36" exception if aisle serves less then 50 seats)
    36" for aisle stairs having seating on one side.
    23" between an aisle stair handrail or guard and seating where the aisle is subdivided by a handrail.
    42" for level or ramped aisles having seating on each side. (36" exception asiles serving 50 seat or less, 30" aisles serving 14 seats or less)
    36" for level or ramped aisles having seating on one side.
    23" between an aisle stair handrail and seating where an aisle does not serve more than five rows on one side.

12. Where aisles converge to form a single path of egress travel, the required egress capacity of that path shall not be less than the combined required capacity of the converging aisles. (IBC 1025.9.3, LSC 12.2.5.4.5)

13. There shall be no obstructions in the required width of aisles except for handrails. (IBC 1025.9.6, LSC 12.2.5.6.3)

14. Aisles with a slope less than 1 in 8 shall have slip-resistant walking surface. Aisles with a slope exceeding 1 in 8 shall consist of a series of risers and treads that extends across the full width of the aisle. (IBC 1025.11, LSC 12.2.5.6.4)

15. Seats shall be securely fastened to the floor. (IBC 1025.12, LSC 12.7.9.1.1)

16. No pre-performance area is required as per IBC 1025.4 & LSC 12.1.2.2 & LSC 12.1.7.2 as no persons will be admitted to the building at times when seats are not available.

**VII. OCCUPANCY SEPARATION**

A. Rooms with any boiler over 15 psi and 10 horsepower must either be separated by a one-hour fire resistive separation or be provided with an automatic sprinkler system in accordance with chapter 9.* (IBC 508.2 , LSC 12.3.2.1.1)

**VII. OCCUPANCY SEPARATION (CONT.)**

B. Furnace rooms where any piece of equipment is over 400,000 BTU per hour input must either be separated by a one-hour fire resistive separation or be provided with an automatic sprinkler system in accordance with chapter 9.* (IBC 508.2 , LSC 12.3.2.1.2)C. Refrigerant machinery rooms must either be separated by a one-hour fire resistive separation or be provided with an automatic sprinkler system in accordance with chapter 9.* (IBC 508.2 , LSC 12.3.2.1.1)

D. Laundry rooms over 100 sq. ft. must be separated by a one-hour fire resistive separation (LSC 12.3.2.1.2)

E. Storage rooms over 100 sq. ft. must either be separated by a one-hour fire resistive separation or be provided with an automatic sprinkler system in accordance with chapter 9.* (IBC 508.2 , LSC 12.3.2.1.2)

F. Waste and linen collection rooms must either be separated by a one-hour fire resistive separation or be provided with an automatic sprinkler system in accordance with chapter 9.* (IBC 508.2 , LSC 12.3.2.1.2)

* Where the sprinkler protection substitution option is elected in lieu of a fire barrier, LSC Section 12.3.2.1.2 requires the room be separated by a smoke partition.

**VIII. INTERIOR FINISHES**

A. Class A - Flame Spread 0-25; smoke-developed 0-450
Class B - Flame Spread 26-75; smoke-developed 0-450
Class C - Flame Spread 76-200; smoke-developed 0-450

(IBC 803.1, LSC 10.2.3.4)

B. Use Group A1, with sprinkler protection

Vertical Exits and Exit Passageways - Class B (IBC 803.5),Class C (LSC A10.2.2)
Exit Access Corridors & other exit ways - Class B (IBC 803.5),Class C (LSC A10.2.2)
Rooms and Enclosed Spaces - Class C (IBC 803.5, LSC A10.2.2)

In vertical exits of buildings three stories or less in height, class C interior finishes shall be permitted for sprinklered buildings. (Table 803.5, note b)

**IX. EMERGENCY SERVICES**

A. Exit Lighting

1. Means of egress, including the exit discharge shall be illuminated at all times the building is occupied, except for aisles in Use Group A1. The illumination level for assembly occupancies is permitted to be reduced to 0.2 foot candle during the performance provided that the required illumination (ten foot candles at floor level) is automatically restored upon activation of the fire alarm system. (LSC 7.8.1.2 & 7.8.1.3)

2. Emergency (secondary) power is required to illuminate all means of egress required to have two or more exits. (IBC 1006.3, LSC 7.8.2.2)

3. Emergency lighting facilities shall be arranged to provide initial illumination that is at least an average of 10 foot candle and a minimum of 0.1 foot candle measured along the path of egress at floor level. Levels shall be permitted to decline to 0.6 foot candle average and a minimum of 0.006 foot candle at the end of the emergency lighting duration. Illumination uniformity ratio of 40 to 1 shall not be exceeded. (IBC 1006.4, LSC 7.9.2 & 7.8.1.3)

B. Exit Signs

1. Exits and exit access doors shall be marked by readily visible exit signs from any direction of egress travel. Exit sign placement shall be such that no point in an exit access corridor is more than 100 feet. (IBC 1011.1, LSC 7.10.1.2)

2. Exit signs shall be illuminated internally or externally. (IBC 1011.2, LSC 7.10.5.1)

3. The face of an exit sign illuminated from an external source shall have an intensity of not less than 5 foot candles. (IBC 1011.5.2, LSC 7.10.7.1 & 7.10.5.2.1)

4. Exit signs shall be illuminated at all times. To continue illumination for not less than 90 minutes during main power outage, emergency power system shall be provided in the form of storage batteries, unit equipment or on-site generator. (IBC 1011.5.3, LSC 7.10.5.1)

**X. FIRE PROTECTION SYSTEM**

A. Automatic Sprinklers

1. Automatic sprinkler system shall be provided throughout buildings used as Use Group A-1 when the occupant load exceeds 300. (IBC 903.2.1.1)

B. Standpipes

1. The 1.5 inch hose connections shall be equipped with sufficient lengths of hose to provide fire protection for the stage area. Hose connections shall be equipped with an approved adjustable fog nozzle and be mounted in a cabinet or on a rack. (IBC 905.3.4.1, LSC 12.4.5.12)

2. Class I standpipes are required in every required stairway, on each side of the wall adjacent to the exit opening of a horizontal exit, in every exit passageway at the entrance from the exit passageway to other areas of the building. (IBC 905.4)

**X. FIRE PROTECTION SYSTEM (CONT.)**

C. Portable Fire Extinguishers

1. Portable fire extinguishers shall be provided in occupancies and locations in accordance with the *International Fire Code and NFPA 10.* (LSC 38.3.5)

D. Fire Alarm Systems

1. A manual fire alarm system shall be installed in accordance with NFPA 72 in Use Group A occupancies having an occupant load of 300 or greater. Manual fire alarm stations are not required when the building is equipped throughout with an automatic sprinkler system and the notification appliances will activate upon sprinkler water flow. (IBC 907.2.1 & exception, LSC 13.3.4.1 & 13.3.4.2.1)

2. Activation of the fire alarm system in Use Group A occupancies with an occupant load of 1,000 or greater shall initiate a signal using an emergency voice/alarm communications system in accordance with NFPA 72. (IBC 907.2.1.1, LSC 12/13.3.4.3.4)

3. Emergency voice/alarm communications systems shall be provided with an approved emergency power source. (IBC 907.2.1.2)

**XI. STAGE**

A. Stage shall be constructed of materials in accordance with type of construction of the building in which the stage is located, in this case Type I-B. (IBC 410.3.1, LSC 12.4.5.3.1)

B. The finished floor shall be constructed of wood or approved noncombustible materials. Openings through stage floors shall be equipped with tight-fitting, solid wood trap doors with approved safety locks. (IBC 410.3.1, exception 3, LSC 12.4.5.3.1)

C. Where the stage height is greater than 50 feet, all portions of the stage shall be completely separated from the seating area by a proscenium wall with not less than a two-hour fire resistance rating extending continuously from the foundation of the roof. (IBC 410.3.4, LSC 12.4.5.6)

D. The proscenium opening shall be provided with a fire curtain of approved material. The fire curtain shall be designed and installed to intercept hot gases, flames and smoke and to prevent a glow from a severe fire on stage from showing on the auditorium side for a period of 20 minutes. (IBC 410.3.5, LSC 12.4.5.7)

Curtain fabric shall have a tensile strength of not less than 400 lbf/in in both the warp and fill directions. (LSC 12.4.5.7.2.2)

E. The curtain shall be activated by rate-of-rise heat detection installed in accordance with section 907.10 operating at a rate of temperature rise of 15 to 20 degrees per minute and by an auxiliary manual control. (IBC 410.3.5.1)

F. Curtain must pass all fire and smoke tests as required by section IBC 410.3.5.2 and LSC 12.4.5.7.2.4 .

G. Stage ventilation shall be provided for stages larger than 1,000 sq. ft. in floor area or with a height 50 feet or greater. (410.3.7) Two or more roof vents constructed to open automatically by approved heat-activated devices and with an aggregate clear opening area of not less than 5 percent of the area of the stage shall be located near the center and above the highest part of the stage. (410.3.7.1)

H. Dressing rooms, scene docks, property rooms, workshops, storerooms and compartments appurtenant to the stage shall be separated from each other by fire barrier wall and horizontal assemblies, or both, with not less than one-hour fire resistance rating with approved opening protection. (IBC 410.5.2, LSC 12.4.5.4.1)

I. At least one approved means of egress shall be provided from each side of the stage; and from each side of the space under the stage. At least one means of escape shall be provided from each fly gallery and from the gridiron. A steel ladder, alternating tread stairway or spiral stairway is permitted to be provided from the gridiron to a scuttle in the stage of the roof. (IBC 410.5.4, LSC 7.4.1.2 & 12.2.2.3.2 & 12.2.4.8)

J. Stages shall be equipped with an automatic sprinkler system in accordance with Chapter 9. The system shall be installed under the roof and gridiron, in the tie and fly galleries and in places behind the proscenium wall of the stage and in dressing rooms, lounges, workshops and storerooms accessory to such stages. (IBC 410.6, LSC 12.4.5.10)

THE SAENGER THEATRE RENEWAL PROJECT

142 North Rampart Street
New Orleans, LA


Client
Saenger Theatre Redevelopment Company
1800 Post Oak Boulevard, 6 Boulevard Place, Suite 450, Houston, TX 77056

Architect
MARTINEZ+JOHNSON ARCHITECTURE
**1412 Eye St., NW**
**Washington, DC 20005**
**202.333.4480**

Structural Engineer
Lundy & Franke Engineering, Inc.
549 Heimer Road, San Antonio, TX 78232
210.979.7900

Theatre Consultant
Schuler Shook
123 Third Street North #210, Minneapolis, MN 55401
612.339.5958

Acoustical Engineer
Akustiks
93 North Main Street, South Norwalk, CT 06854
203.299.1904

MEP Engineer
JBA Consulting Engineers, Inc.
3525 N. Causeway BLVD. Suite 500 Metairie, LA 70002
504.830.0139

Civil Engineer
Linfield, Hunter, & Junius, Inc.
3606 18th Street Suite 200, Metairie, LA 70002
504.833.5300

Architectural Historian
EHT Traceries, Inc.
1121 Fifth Street NW
Washington, DC 20001
202.393.1199



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