









## 39th Annual FPC Seminar + Expo

11

自

ERE

信准

8

F

E.







Differences Between the IBC and NFPA 101		
	IBC	LSC
Sultes	Intervening rooms limited to three doors.     Maximum 100' travel distance within suite (can be increased to 125' with smoke detection.	Hazardous suites (1-hour rated and smoke detection)     No limit to intervening rooms.     Maximum 100-feet travel distance within suite.
Corridors	<ul> <li>Must be continuous to the exits and be separated from other areas in accordance with Section 407.3 except as provided in Sections 407.2.1-407.2.4.</li> </ul>	<ul> <li>Corridors shall be separated from all other areas by partitions complying with 18.3.6.2 through 18.3.6.5 unless otherwise permitted.</li> </ul>
Corridor Walls	Corridor walls in hospitals are constructed as smoke partitions.	Must limit the transfer of smoke.
Dead End Corridors	· 20'	• 30'
Storage Rooms (50 and 100 ft of combustible material)	• N/A	<ul> <li>Smoke-partitions and doors provided with door closing devices, (18.3.2.1.3)</li> </ul>
Storage rooms (more than 100 sq ft of combustible material)	• N/A	1-hr fire barrier. %-hr doors with closers. (18.3.2.1.2)
Elevator Lobbies	Required in hospitals 4 stories or more. IBC 3006.2	<ul> <li>Required if used for occupant evacuation. Ever floor served by the elevator shall have an elevator lobby and forr a 1-hr barrier in accordance with 8.5.</li> </ul>
Generator Rooms	• N/A	Emergency Power: 1-hr separation and 2-hr fuel supply. (7.2.3.12)
Central/bulk laundries (more than 100 sq. ft	1-hr or provide automatic fire sprinkler system.	1-hour fire barrier, 3/4 – hr doors with closers.
Shaft Ratings	2-hour fire barrier (4 or more stories)     1-hour fire barrier (f floor penetrated is NR or 1 hr rated, otherwise 2hr.	2-hour fire barrier (4 or more stories)     1-hour fire barrier.
1-500 Occupants	2 Exits (Table 1006.3.2)	3 Exits (7.4.1.1)
Exits in each Smoke Compartment	<ul> <li>Based on occupant load and travel distance. Travel distance not to exceed 200' from smoke barrier to barrier door. Independent egress required without reentry into smoke compartment per 407.5.2.</li> </ul>	Access to 2 exits
Panic Hardware	Assembly/Education occupancy – 50 plus	Assembly/Education occupancy – 50 plus
High Rus Provisions	Meinimum Construction type.     Search-call integrity of lensing and elevator hold way enclosures.     Suru-Lai Integrity of lensing and elevator hold way enclosures.     Advances granker system.     Energencer, systems.     Energencer, systems.     Energencer, systems.     Fire Command Catters.     Fire Command Catters.     Fire Command Catters.     Fire Command Catters.     Sounders and one provide system.     Saudogs and emergence granters.     Saudogs and emergence granters.	Automatic großer protection.     Volac comment große großer.     Sindesprof inclosure.
Building Construction Type ( Area/Height)	<ul> <li>Based on height and area – Type 1A construction required for building more than five stories.</li> </ul>	Based on number of stories – maximum required is Type II (equal to IBC type 1B)
		Source ASHE LIFE SAFETY COMPARISON MONOGRAPH 2018

















## 39th Annual FPC Seminar + Expo









## **Inspection Process**



- Statistical sampling
- Verify materials prior to installation
- Verify against listed systems and/or EJs
- Verify that ALL firestops installed

ASTM E2174: Standard Practice for On-Site Inspection of Installed Fire Stops

 For each "type" of firestop being installed:
 Witness 10% of Installations, or Destructive Testing on 2% of Installations

ASTM E2393, Standard Practice for On-Site Inspection of Installed Fire Resistive Joint Systems and Perimeter Fire Barriers

 For each "type" of fire resistive joint system being installed:
 Witness 5% of linear feet being installed, or Destructive (or disassembly) testing on 1 ft. per every 500 ft.
 \*IFC 2018

## 39th Annual FPC Seminar + Expo







