

EDUCATIONAL OCCUPANCY - LIFE SAFETY REFERENCES

OCCUPANCY SEPARATION NOT REQUIRED

EDUCATIONAL OCCUPANCY - LIFE SAFETY REFERENCES

1.

IBC 2012		NFPA Life Safety Code 2012	
CHAPTER		CHAPTER	
3 - Occupancy	Educational E Assembly accessory to E. A-3 PE Media Center, Cafeteria, Art, Music	6.1.2 Assembly (see Chapter 12) 6.1.2 Assembly (see Chapter 12)	
302.1.1	Incidental use separation: 1 hr. - storage over 100 sf.	14.3.2.1	Hazard protection: 1 hr. protection & sprinklers. (Laundry, Kilo Room, Elect. & Mech. Rooms)
302.3.3	EIA-3: 2 hr. exception: Accessory Assembly uses to education not considered separate occupancy.	14.3.2.2	Kitchens: Openings to dining do not require protection.
4 - Special Requirements based on use & occ.			
410 Stages & Platforms			
410.3.7 > 1,000	2 vents > 5% (of the s.f.)		
< 1,000	Vents not required		
AUTO SPRINKLER SYSTEM SHALL BE REQUIRED			
410.8 Standpipes - Per 905			
5 - Height & Area			
Table 500			
Frontage Increase	I = [F/P - 0.25] W/30	14,500 s.f.	
F = Open Perimeter	EQUAL	100%	14,500 s.f.
P = Entire Perimeter	EQUAL		
W = Open Width	30 ft.		
506.3 Auto Sprinkler Increase	300% 1 STORY	43,500 s.f.	
Max Area	Table 508 3.3 Assembly, A, E No separation required.	72,500 s.f.	
6 - Construction Type			
Type II B, 000		Table 12.1.6 Assembly 14.1.6 Min. constr. requirements	Type II (000) Occupant load less than 1000 No requirements
7 - Fire Rated Construction			
Table 601 Type IIB structure, floor & roof no rating required.			
705 Exterior Walls			
706 Fire Walls	706.5 Horizontal Continuity-Fire wall may terminate at exterior wall. 706.6 Vertical Continuity.	NFPA does not require fire separation walls due to area - so NFPA does not govern area separation walls.	
707 Fire Barriers	705.1 Exterior wall intersecting Fire Wall 1hr. for 4	8.2.5.3	Vertical openings that do not extend to the bottom or top of the building shall be enclosed at the lowest or highest level of the shaft.
		8.2.5.3 Exception	Shafts shall be permitted to terminate in a room or space having a fire related to the purpose of the shaft. If space is separated from the remainder of the building by construction having a fire resistance rating and opening protective in accordance with 8.2.5.2 and 8.2.3.3.
708 Fire Partitions		8.2.5.1	Every floor shall be a smoke barrier (3.3, 8.20)
709 Smoke Barriers		14.3.6	Corridor walls smoke partitions in accordance with 8.2.4.
710 Smoke Partitions		8.2.1.2.1	2-hr fire barrier - 1 1/2 hr. fire protection rating 1-hr fire barrier - 1 hr. fire protection rating where used for vertical openings or exit enclosures, or 1/2 hr. fire protection rating where used for other than vertical openings or exit enclosures, unless a lesser fire protection rating is specified by Chapter 7 or Chapters 11 thru 42.
712 Vertical Openings		8.2.5.4	Fire resistance rating for the enclosure of floor openings: 1 hr. (less than 4 stories) 4 stories or more - 2 hr.
714 Penetrations		8.3.5 Smoke Dampers	
715 Fire-Resistant Joint Systems		8.3.5.1	Approved smoke damper provided for each air transport opening or duct penetration of smoke barrier, unless exempted by Chapters 12 thru 42.
716 Opening Protectives		Exception 1	Not required if openings are part of an eng. Smoke system per section 9.3.
717 Ducts & Air Transfer Openings		Exception 2	Ducts where air continues to move in an air handling system to prevent recirculation of exhaust or return air under fire emergency conditions.
		Exception 3	Where air inlet or outlet openings in ducts are limited to a single smoke compartment.
		Exception 4	Where ducts penetrate floors that serve as smoke barriers.

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CHAPTER		CHAPTER	
9 - Fire Protection Systems			
903 Auto Sprinkler Systems			
903.2 Where Required			
903.2.1.1 (A1) OCC. N/A	A1 Fixed seats -performing arts -Motion Pictures		
Area > 12,000			
Occ. Load 300 or more			
903.2.1.2 (A2) OCC.	N/A A2 -Food & Drink (Banquet, Restaurants, etc)		
Area > 5,000			
Occ. Load 100 or more			
903.2.1.3 (A3) OCC.	A3 -Worship, Lecture		
Area > 12,000			
Occ. Load 300 or more			
903.2.1.4 (A4) OCC.	A4 -Indoor sport events with seating		
Area > 12,000			
Occ. Load 300 or more			
903.2.1.5 (A5) OCC.	A-5 Outdoor activities. Amusement park, Stadiums, Bleachers Area 1000 s.f./ Pressbox, Concession, other accessory		
903.2.2 (E)			
Area > 20,000			
905 standpipes			
905.3.1	Height class iii where floor level of highest story indicated more than 30 ft. Above lowest level of fire department vehicle access. Exceptions: class i in bldgs with auto. Sprinkler system		
905.3.2	Group a -class i in open road >1000		
905.3.4 Stages	>1000 s.f. class iii (1 1/2" on both sides of stage) exception -if auto sprinkler system then 1-1/2" on both sides		
202 DEF: standpipes, classes	class I 2-1/2" for use by fire dept. class II 1-1/2" for use primary fire bldgs. Occupants class III both 1-1/2" & 2-1/2"		
202 DEF: Platform	-A raised area in bldg. for worship, etc. no overhead hanging curtains, drop, scenery or stage effects except lighting & sound. STAGE - INCLUDES overhead curtains, drop, scenery or stage effects		
905.4 Local fire CLASS	Required stairway for each floor level above or below grade.		
906 PORTABLE EXTINGUISHERS		9.7.4	Manual Extinguishing Equipment
906.1 where stored	-Within 30' of commercial cooking equipment (class k) -in areas where flammable & combustible liquids are stored -low hazard occupancy 2a/6000 s.f./75' max travel -100 -50' max travel		
Means of Egress		Chapter 7 - Means of Egress	Fire barriers separating building areas @ horz. Exits-2 Hr.
1003.2 Ceiling Height	Not less than 7'6"	7.3.4.3	Exterior wall intersecting Fire Wall < 180° 1 Hr. for 10'
1003.3	Horizontal projections fixture or furnishings shall not project horizontally from either side more than 4" over any walking surface except hand rails serving stairs and ramps are permitted to protrude 4.5" from the wall.	7.2.4.3.2	
1003.3.4	Clear width protruding objects shall not reduce the clear width of assessable routes.	7.4.1 & 7.14.2.4	
1003.5	For Elevation changes of less than 12" slope surfaces shall be used. Where the slope is greater than 120 (5%), ramps shall be used.	7.4.12	
		12.2.3.3	
		7.5.1.4	2 required exits separated not less than 1/2 the length of maximum overall diagonal dimension of building or area to be served measured the nearest edge of the exit doors. More than 2 exits required at least 2 must comply above; the other exits shall be located so that if 1 is blocked the others are available.
1004 - Occupant Load	Table 1004.1.1	Table 7.3.1.2 - Occupant Load	
Cafeteria	15 / Person	15 / Person	
Assembly	15 / Person	15 / Person	
Business	100 / Person	100 / Person	
Classrooms	20 / Person	20 / Person	
Media	50 / Person Seating	50 / Person Seating	
Stage	100 / Person Stacks	100 / Person Stacks	
Kitchen	15 / Person Stacks	15 / Person Stacks	
	200 / Person Stacks	200 / Person Stacks	
1004.8 - Outdoor areas	Table 1017.1 Assembly & Education no rating w/sprinklers The occupancy of outdoor areas shall be assigned by the building official in accordance with anticipated use.	14.1.7.2	The occupant load of an educational occupancy or a portion thereof shall be permitted to be modified from 14.1.7.1 if the necessary aisles and exits are provided. An approved seating diagram shall be required by the authority having jurisdiction to substantiate such a modification.
1005 - Egress Width		Table 7.3.3.1	.2"/person level & ramps .3"/person stairs
1005.1 - Minimum Width	Table 1005.1 (NFPA governs) with sprinkler: 0.2 in./occupant for stairs with sprinkler: 0.15 in./occupant for egress components other than stairs	Table 12.2.3.2	Assembly Theater seating in rows 0.220C in./seat served for Passageways, Ramps, and Doorways 0.300AB in./seat served for Stairs C=1.10 for ramps steeper than 1/10 A=1+ riser height greater than 7" B=1.25 for aisle without handrail within 30" horizontal distance
1017.3 - Dead End	20' or L = 2.5 x W	Table 7.6.1 Education	Common Path: 100' Dead-end: 50' Travel: 200' Common Path: < 50 occupants 75' = 50 or > 50 occupants 20' Dead-end: corridors 0' aisles 20' Travel: 200'
1014.3 - Common path of Egress Travel	75 Feet		

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GLYNN COUNTY BOARD OF EDUCATION

CAPITAL OUTLAY PROJECT # TBD
SYSTEM CODE: 663
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BID SET

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CHECKED BY:
APPROVED BY:
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1802
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