

LIFE SAFETY LEGEND:

- 1 HOUR FIRE RATED WALL
- 2 HOUR FIRE RATED WALL
- SMOKE PARTITION
- TRAVEL PATH
- SINGLE DIRECTION EXIT SIGN
- DOUBLE DIRECTION EXIT SIGN
- EXIT SIGN
- POINT OF ORIGIN
- PATH OF TRAVEL
- DISTANCE TO NEAREST EXIT (FT)
- FIRE EXTINGUISHER IN SEMI-RECESSED CABINET (FEC)
- FIRE EXTINGUISHER WALL MOUNTED (FE)

Applicable Codes

Building Code: 2009 International Building Code
Electric Code: 2011 NFPA 70 National Electric Code
Fire Code & Life Safety: 2009 NFPA 101 Life Safety Code
Fire Alarm: 2010 NFPA 72 International Fire Alarm Code
NFPA 13: 2010 Standard for the Installation of Sprinkler Systems
Unified Facilities Criteria: UFC 3-600-01 Fire Protection Engineering For Facilities (26 Sep 2006, Change 1 - 14 July2009)
UFC 3-600-10N Fire Protection Engineering (Final Draft)
UFC 4-021-01 Design And O&M: Mass Notification Systems (9 Apr 2008, Change 1 Jan 2010)

Occupancy Classification (IBC Chapter 3 and NFPA 101)

Occupancy: Mixed Without Separation
Business Group B (IBC 304.1)
NFPA 101 Chapter 38, New Business

General Building Heights And Areas (IBC Chapter 5):

Maximum Allowable Height And Building Areas Per Table 503:

Type Of Construction: Type IIB
Max. Allowable Height, Sprinklered = 55 Feet Max.
Allowable Number Of Stories, Sprinklered: Business = 4
Max. Allowable Area Per Floor (IBC 506.3): Business = 69,000 sf

Provided Height And Building Areas:

Building Height = 39'-0"
Number Of Stories = 1
Area: 5,309 sf

Types Of Construction (IBC Chapter 6 & UFC 3-600-01):

Construction Classification (IBC 602):

Type I (A)	()	Type III (B)	()
Type I (B)	()	Type IV (Ht)	()
Type II (A)	()	Type V (A)	()
Type II (B)	(X)	Type V (B)	()
Type III (A)	()		

Mixed Construction : Yes () No (X)

Fire Resistant Construction (IBC Chapter 7, UFC 3-600-01, NFPA 101):

Sprinkled: Yes (X) No () Type: NFPA 13 (X) NFPA 13R ()

Fire-Resistance Rating Requirements For Building Elements (IBC Table 601):

Assemblies/Components	Hourly Ratings	Design
Primary Structural Frame	0	N/A
Bearing Walls - Exterior	0	N/A
Bearing Walls - Interior	0	N/A
Non-Bearing Walls & Partitions - Exterior	0	N/A
Non-Bearing Walls & Partition - Interior	0	N/A
Floor Construction	0	N/A
Roof Construction	0	N/A

Fire-Resistance Rating Requirements For Exterior Walls Based On Fire Separation Distance (Ibc Table 602): 0 Hours (>30 Ft On All Sides)

X < 5 Ft	2 Hours	5 Ft ≤ X < 10 Ft	1 Hour
10 Ft ≤ X < 30 Ft	0 Hours	X ≥ 30 Ft	0 Hours

Fire Barriers (IBC NFPA 101):

Per UFC 3-600-01, load bearing walls that are fire barriers fall under the IBC, those that are non-load bearing fall under NFPA 101
Mechanical Room Smoke Partition and Sprinklers
Occupancy Separation Not Required

Interior Finishes (NFPA 101):

Interior Wall & Ceiling Finish Requirements

Exits And Exit Access Corridors: Class A
Other Spaces: Class A, or Class B

Max. Allowable Flame Spread/Smoke Development Indexes (UFC 3-600-01):

Concealed Insulation (UFC 3-600-01, 2-7.1): Flame 75, Smoke 150
Exposed Insulation: Flame 25 (IBC 719.2) / Smoke 150 (UFC 3-600-01, 2-7.1)
Insulation @ Plenums (MC 602.2.1): Flame 25 / Smoke 50

Means Of Egress - NFPA 101

Egress Width Per Person Served (NFPA Table 7.3.3.1):

Level Components & Ramps	0.2 Inch
Stairs	0.3 Inch
Minimum Clear Opening Of Exit Doors (NFPA 7.2.1.2.4)	= 34 In.

Egress Width - Provided (NFPA 7.3.3.3):

1 Doors @ 60" / 0.2" / Person = 300 Persons
1 Doors @ 64" / 0.2" / Person = 320 Persons

Occupancy Load (NFPA Table 7.3.1.2):

Business Use 5,309 sf (1 Person / 100 sf) = 54 Persons

Door Swing (NFPA 7.2.1.4.2):

Door Shall Swing In The Direction Of Egress When Serving An Occupant Load Of 50 Or More Persons.

Minimum Number Of Exits (NFPA 101 7.4.1.1): Not Less Than 2 Exits Per Story.

Number Of Exits Provided:

First Floor = 2 Exits

Minimum Clear Corridor/Passageway Width (NFPA 12.2.3.8 and 38.2.3.2) = 44 In.

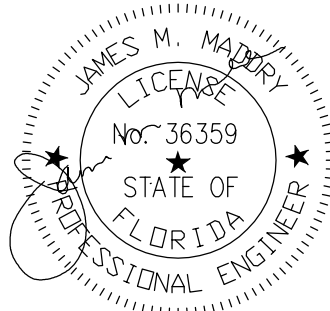
Egress Limits:

Business 50 ft, Actual None
Max Dead End 100 ft, Actual less than 20 ft
Max Common Path 300 ft, Actual less than 100 ft

FINAL SUBMISSION
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