Life Safety Plans: Symbols and Code
ADVANCED

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on
Fire Safety and Emergency Symbols
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Life Safety Plans : Symbols and Code
ADVANCED

Using the symbol's from
National Fire Protection Association’s
NFPA 170
Standard for Fire Safety and Emergency Symbols
IN CASE OF FIRE
EXIT BUILDING
BEFORE POSTING OR TWEETING ABOUT IT
SECTION 1025
LUMINOUS EGRESS PATH MARKINGS

1025.2.6.1 Emergency exit symbol. The doors shall be identified by a low-location luminous emergency exit symbol complying with NFPA 170. The exit symbol shall be a minimum of 4 inches in height and shall be mounted on the door, centered horizontally, with the top of the symbol no higher than 18 inches above the finished floor.
Example of luminous egress path markings in a multi-story, commercial building
SECTION 1025
LUMINOUS EGRESS PATH MARKINGS

1025.1 General. Approved luminous egress path markings delineating the exit path shall be provided in high-rise buildings of Group A, B, E, I, M, and R-1 occupancies in accordance with Sections 1025.1 through 1025.5.

Exception: Luminous egress path markings shall not be required on the level of exit discharge in lobbies that serve as part of the exit path in accordance with Section 1028.1, Exception 1.
MEANS OF EGRESS. A continuous and unobstructed path of vertical and horizontal egress travel from any occupied portion of a building or structure to a public way. A means of egress consists of three separate and distinct parts: the exit access, the exit and the exit discharge.
Means of egress.
The *construction documents* shall show in *sufficient detail* the location, construction, size and character of all portions of the *means of egress* including the path of the *exit discharge* to the *public way* in compliance with the provisions of this code.

In *other than* occupancies in Groups R-2, R-3, and I-1, the *construction documents* shall designate the number of occupants to be accommodated on every floor, and in all rooms and spaces.
LIFE SAFETY SYMBOLS

E.55  EGRESS COMPONENT IDENTIFIER

- EX# = EXIT NUMBER
- HE = HORIZONTAL EXIT
- CP = COMMON PATH OF TRAVEL
- PD = PUBLIC DISCHARGE
- RD = ROOM DOOR
- ES = ESCAPE

00-55  TRAVEL DISTANCE SYMBOL

EGRESS COMPONENT DISTANCE TO

<00>  EGRESS COMPONENT CAPACITY

GOVERNING COMPONENT CAPACITY

CAPACITY

0 0.0

OCCUPANCY CAPACITY SYMBOL

SQUARE FEET PER PERSON
NET AREA (SQUARE FEET)

FPPC = FLORIDA FIRE PREVENTION CODE
FBC = FLORIDA BUILDING CODE

CODE SECTION  GOVERNING CODE REFERENCE

EXIT ACCESS
- EXIT
- EXIT DISCHARGE

= 20 MIN RATED
\[= 30 \text{ MIN RATED}
\[ = 45 \text{ MIN RATED}
\[ = 1 \text{ HOUR}
\[ = 1.5 \text{ HOUR}
\[ = 2 \text{ HOUR}

Wall Ratings shown are for Life Safety Plan requirements. Not for Building Type/Shafts.

- 1 HOUR RATED WALL
- 2 HOUR RATED WALL
- P = FIRE WALL
- S = SMOKE PROTECTION

= 3/4 HOUR RATED

= 1 1/2 HOUR RATED

PH = PANIC HARDWARE
\[ = FIRE EXTINGUISHER
\[ = EXIT SIGN

EXIT SIGN with Emergency Lights

EMERGENCY LIGHT

= MANUAL PULL STATION
\[ = HORN/VISIBLE
\[ = PRESSURIZED

\[ = FIRE TEST ID
Portable Fire Extinguishers

FBC Section 906.2
FFPC NFPA 1-13.6.2
FFPC NFPA 101-9.9

NFPA 10
Portable Fire Extinguishers

Basic Shape

Water

Foam

Dry chemical, liquid, gas or electric

Dry chemical, all except metals

CO₂

Halon or clean agent

Metal fires
CLASS A FIRES
Ordinary combustible materials

CLASS B FIRES
Flammable liquids and gases

CLASS C FIRES
Energized electrical equipment
CLASS D FIRES
Combustible metals

CLASS K FIRES
Flammable cooking media
SECTION 906
PORTABLE FIRE EXTINGUISHERS

[F] 906.1 Where required. Portable fire extinguishers shall be installed in all of the following locations:

1. In Group A, B, E, F, H, I, M, R-1, R-2, R-4 and S occupancies.

Exception: In Group R-2 occupancies, portable fire extinguishers shall be required only in locations specified in Items 2 through 6 where each dwelling unit is provided with a portable fire extinguisher having a minimum rating of 1-A:10-B:C.
Light Hazard
Occupancies where the quantity and combustibility of CLASS A and CLASS B (less than 1 gal per room or area) are low and fires with relatively low rates of heat release.

Ordinary Hazard
Occupancies where the quantity and combustibility of CLASS A and CLASS B (1 to 5 gal per room or area) are moderate and fires with relatively moderate rates of heat release.

Extra Hazard
Occupancies where the quantity and combustibility of CLASS A and CLASS B (more than 5 gal per room or area) are high and fires with relatively high rates of heat release.
Light Hazard
Offices, classrooms, churches, assembly halls, hotel or motel guestrooms, etc.

Ordinary Hazard
Dining areas, mercantile shops and allied storage, light manufacturing, research operations, auto showrooms, parking garages, workshop or support service areas of light hazard occupancies and warehouses containing NFPA 13 Class I or Class II commodities.

Extra Hazard
Wood working, vehicle repair, aircraft and boat servicing, cooking areas, individual product display showrooms, product convention center displays and storage and manufacturing process such as painting, dipping, and coating including flammable liquid handling. Warehousing or in-process storage of other than NFPA 13 Class I or Class II commodities.
## Portable Fire Extinguishers

### Maximum Protected area

<table>
<thead>
<tr>
<th>Type</th>
<th>Area</th>
<th>Description</th>
<th>Area Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>2A-10B:C</td>
<td>6,000</td>
<td>light</td>
<td>A = 3,000 sf</td>
</tr>
<tr>
<td>2A-10B:C</td>
<td>3,000</td>
<td>ordinary</td>
<td>A = 1,500 sf</td>
</tr>
<tr>
<td>3A-40B:C</td>
<td>9,000</td>
<td>light</td>
<td></td>
</tr>
<tr>
<td>3A-40B:C</td>
<td>4,500</td>
<td>ordinary</td>
<td></td>
</tr>
<tr>
<td>4A-80B:C</td>
<td>11,250</td>
<td>light</td>
<td></td>
</tr>
<tr>
<td>4A-80B:C</td>
<td>6,000</td>
<td>ordinary</td>
<td></td>
</tr>
<tr>
<td>4A-80B:C</td>
<td>4,000</td>
<td>extra</td>
<td></td>
</tr>
</tbody>
</table>

*within 75’*
Portable Fire Extinguishers
protected area
11,375

FE-1 2A:10B:C 6,000 light tenant
FE-2 2A:10B:C 6,000 light tenant
FE-3 2A:10B:C 6,000 light tenant

18,000 covered

tenant
5,270 sf

tenant
4,941 sf

floor
11,375 sf
<table>
<thead>
<tr>
<th>TYPE OF HAZARD</th>
<th>BASIC MINIMUM EXTINGUISHER RATING</th>
<th>MAXIMUM DISTANCE OF TRAVEL TO EXTINGUISHERS (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light (Low)</td>
<td>5-B</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>10-B</td>
<td>50</td>
</tr>
<tr>
<td>Ordinary (Moderate)</td>
<td>10-B</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>20-B</td>
<td>50</td>
</tr>
<tr>
<td>Extra (High)</td>
<td>40-B</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>80-B</td>
<td>50</td>
</tr>
</tbody>
</table>
EXIT sign, illuminated
sign face
direction arrow
Emergency light, battery w(EXIT sign)

Emergency light, battery

Emergency light, fixture
1013.1 Where required. *Exits* and exit access doors 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*.

...
7.10.1.5 Exit Access.

7.10.1.5.1 Access to exits shall be marked by approved, readily visible signs in all cases where the exit or way to reach the exit is not readily apparent to the occupants.

7.10.1.5.2* New sign placement shall be such that no point in an exit access corridor is in excess of the rated viewing distance or 100 ft (30 m), whichever is less, from the nearest sign.
7.10.3.2* Where approved by the authority having jurisdiction, pictograms in compliance with NFPA 170, *Standard for Fire Safety and Emergency Symbols*, shall be permitted.
1013.5 Internally illuminated exit signs. Electrically powered, self-luminous and photoluminescent exit signs shall be listed and labeled in accordance with UL 924 and shall be installed in accordance with the manufacturer’s instructions and Chapter 27. Exit signs shall be illuminated at all times.
1025.5 Illumination. Where *photoluminescent* exit path markings are installed, they shall be provided with not less than 1 footcandle (11 lux) of illumination for not less than 60 minutes prior to periods when the building is occupied and continuously during occupancy.
1025.4 Self-luminous and photoluminescent. Luminous egress path markings shall be permitted to be made of any material, including paint, provided that an electrical charge is not required to maintain the required luminance. Such materials shall include, but not be limited to, self-luminous materials and photoluminescent materials. Materials shall comply with either of the following standards:

1. UL 1994.

2. ASTM E2072, except that the charging source shall be 1 footcandle (11 lux) of fluorescent illumination for 60 minutes, and the minimum luminance shall be 30 milli-candelas per square meter at 10 minutes and 5 milli-candelas per square meter after 90 minutes.
Pull Station/ fire alarm box
Automated External Defibrillator
Pressurized
E:$$ Egress Component Identifier

EX Exit
HE Horizontal Exit
CP Common Path
RD Room Door
ES Escape
PD Public Discharge

##>$ Travel Distance Symbol

Distance to
E:RD
E:EX1
E:HE

50’>RD
160’>EX1
175’>HE
75’>CP
**LIFE SAFETY SYMBOLS**

**E.55** EGRESS COMPONENT IDENTIFIER

- **EX** = EXIT NUMBER
- **HE** = HORIZONTAL EXIT
- **CP** = COMMON PATH OF TRAVEL
- **PD** = PUBLIC DISCHARGE
- **RD** = ROOM DOOR
- **ES** = ESCAPE

**00-99** TRAVEL DISTANCE SYMBOL

- EGRESS COMPONENT DISTANCE TO

<<00>> EGRESS COMPONENT CAPACITY

<<00>> GOVERNING COMPONENT CAPACITY

**CODE SECTION** GOVERNING CODE REFERENCE

<table>
<thead>
<tr>
<th><strong>EXIT ACCESS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EXIT</strong></td>
</tr>
<tr>
<td><strong>EXIT DISCHARGE</strong></td>
</tr>
</tbody>
</table>

- **= 20 MIN RATED**
- **= 30 MIN RATED**
- **= 45 MIN RATED**
- **= 1 HOUR**
- **= 1.5 HOUR**
- **= 2 HOUR**

Wall Ratings shown are for Life Safety Plan requirements. Not for Building Type/Shafts.

- **= 1 HOUR RATED WALL**
- **= 2 HOUR RATED WALL**
- **F** = FIRE WALL
- **S** = SMOKE PROTECTION

- **= 3/4 HOUR RATED**

**0-99** OCCUPANCY CAPACITY SYMBOL

<table>
<thead>
<tr>
<th>SQUARE FEET PER PERSON</th>
</tr>
</thead>
<tbody>
<tr>
<td>NET AREA (SQUARE FEET)</td>
</tr>
</tbody>
</table>

**FPPC** = FLORIDA FIRE PREVENTION CODE

**FBC** = FLORIDA BUILDING CODE

**EMERGENCY LIGHT**

**PH** = PANIC HARDWARE

**FIRE EXTINGUISHER**

**EXIT SIGN**

**EXIT SIGN with Emergency Lights**

**MANUAL PULL STATION**

**HORN/VISIBLE**

**PRESSURIZED**

**FIRE TEST ID**
<###> Egress Component Capacity
<165>

<<###>> Governing Component Capacity
<<120>>
1005.3.1 Stairways. The capacity, in inches (mm), of means of egress stairways shall be calculated by multiplying the occupant load served by such stairway by a means of egress capacity factor of 0.3 inch per occupant. Where stairways serve more than one story, only the occupant load of each story considered individually shall be used in calculating the required capacity of the stairways serving that story.

1005.3.2 Other egress components. The capacity, in inches, of means of egress components other than stairways shall be calculated by multiplying the occupant load served by such component by a means of egress capacity factor of 0.2 inch per occupant.
clear width

36" / 2 = 180 - 15 = 165
STAIR WIDTH

4 1/4"  

4 1/4"
SECTION 1005 : MEANS OF EGRESS SIZING

1005.7 Encroachment. Encroachments into the required means of egress width shall be in accordance with the provisions of this section.

1005.7.1 Doors. Doors, when fully opened, shall not reduce the required width by more than 7 inches. Doors in any position shall not reduce the required width by more than one-half.

Exception:

1. Surface-mounted latch release hardware shall be exempt from inclusion in the 7-inch maximum encroachment where:
   
   1.1. The hardware is mounted to the side of the door facing away from the adjacent wall where the door is in the open position; and
   
   1.2. The hardware is mounted not less than 34 inches nor more than 48 inches above the finished floor.

2. The restrictions on door swing shall not apply to doors within individual dwelling units and sleeping units of Group R-2 occupancies and dwelling units of Group R-3 occupancies.
1005.7.2 Other projections. Handrail projections shall be in accordance with the provisions of Section 1012.8. Other nonstructural projections such as trim and similar decorative features shall be permitted to project into the required width a maximum of 1 1/2 inches on each side.

1005.7.3 Protruding objects. Protruding objects shall comply with the applicable requirements of Section 1003.3.
LIFE SAFETY SYMBOLS
NFPA 170

EGRESS COMPONENT IDENTIFIER
- EN = EXIT NUMBER
- HE = HORIZONTAL EXIT
- CP = COMMON PATH OF TRAVEL
- PD = PUBLIC DISCHARGE
- RD = ROOM DOOR
- ES = ESCAPE

TRAVEL DISTANCE SYMBOL
- EGRESS COMPONENT DISTANCE TO

<00> EGRESS COMPONENT CAPACITY
<<00>> GOVERNING COMPONENT CAPACITY

CAPACITY
- OCCUPANCY CAPACITY SYMBOL
- SQUARE FEET PER PERSON
- NET AREA (SQUARE FEET)

CODE SECTION
- FPPC = FLORIDA FIRE PREVENTION CODE
- FBC = FLORIDA BUILDING CODE

GOVERNING CODE REFERENCE

EXIT ACCESS
- EXIT
- EXIT DISCHARGE
- 20 MIN RATED
- 30 MIN RATED
- 45 MIN RATED
- 1 HOUR
- 1.5 HOUR
- 2 HOUR
- etc.

Wall Ratings shown are for Life Safety Plan requirements. Not for Building Type/Shafts.
- 1 HOUR RATED WALL
- 2 HOUR RATED WALL
- FIRE WALL
- SMOKE PROTECTION

3/4 HOUR RATED

1 1/2 HOUR RATED
- PANIC HARDWARE
- FIRE EXTINGUISHER
- EXIT SIGN

EXIT SIGN with Emergency Lights
- EMERGENCY LIGHT
- MANUAL PULL STATION
- HORN/VISIBLE
- PRESSURIZED
- FIRE TEST ID
Occupancy Capacity Symbol

# Occupant Load
||
# Area
-
# Square feet per person

50
||
750
15
## TABLE 1004.1.2

### MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

<table>
<thead>
<tr>
<th>Function of Space</th>
<th>Occupant Load Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SECTION 1004: OCCUPANT LOAD</strong></td>
<td></td>
</tr>
<tr>
<td>Administrative offices, maintenance</td>
<td>300 gross</td>
</tr>
<tr>
<td>equipment rooms</td>
<td></td>
</tr>
<tr>
<td>Apparatus rooms</td>
<td>300 gross</td>
</tr>
<tr>
<td>Educational</td>
<td></td>
</tr>
<tr>
<td>Assembly</td>
<td></td>
</tr>
<tr>
<td>Assembly with fixed seats</td>
<td>See Section 1004.4</td>
</tr>
<tr>
<td>Assembly without fixed seats</td>
<td></td>
</tr>
<tr>
<td>Concentrated (chart only—no fixed)</td>
<td>7 net</td>
</tr>
<tr>
<td>Standing space</td>
<td>5 net</td>
</tr>
<tr>
<td>Unconcentrated (tables and chairs)</td>
<td>15 net</td>
</tr>
<tr>
<td>Seating areas, allows 5 persons for each hour including 15 feet of capacity, not for additional uses</td>
<td>7 net</td>
</tr>
<tr>
<td>Business areas</td>
<td>100 gross</td>
</tr>
<tr>
<td>Classrooms—other than fixed seating</td>
<td>100 gross</td>
</tr>
<tr>
<td>Dry areas</td>
<td>50 gross</td>
</tr>
<tr>
<td>Documentaries</td>
<td>50 gross</td>
</tr>
<tr>
<td>Educational</td>
<td></td>
</tr>
<tr>
<td>Classroom areas</td>
<td>50 net</td>
</tr>
<tr>
<td>Shops and other vocational room areas</td>
<td>50 net</td>
</tr>
<tr>
<td>Exercise rooms</td>
<td>50 gross</td>
</tr>
<tr>
<td>Group H-5: Factories and manufacturing</td>
<td>200 gross</td>
</tr>
<tr>
<td>Industrial areas</td>
<td>100 gross</td>
</tr>
<tr>
<td>Institutional areas</td>
<td></td>
</tr>
<tr>
<td>Resident recreation areas</td>
<td>240 gross</td>
</tr>
<tr>
<td>Commercial areas</td>
<td>100 gross</td>
</tr>
<tr>
<td>Sleeping areas</td>
<td>120 gross</td>
</tr>
<tr>
<td>Kitchens: commercial</td>
<td>200 gross</td>
</tr>
<tr>
<td>Library</td>
<td></td>
</tr>
<tr>
<td>Reading rooms</td>
<td>50 net</td>
</tr>
<tr>
<td>Study areas</td>
<td>200 gross</td>
</tr>
<tr>
<td>Locker rooms</td>
<td>50 gross</td>
</tr>
<tr>
<td>Mall buildings—covered and open</td>
<td>See Section 403.2.3</td>
</tr>
<tr>
<td>Merchandise</td>
<td></td>
</tr>
<tr>
<td>Areas on other floors</td>
<td>80 gross</td>
</tr>
<tr>
<td>Restroom and guest cover areas</td>
<td>80 gross</td>
</tr>
<tr>
<td>Storage, stock, shipping areas</td>
<td>100 gross</td>
</tr>
<tr>
<td>Parking garages</td>
<td>200 gross</td>
</tr>
<tr>
<td>Residential</td>
<td>200 gross</td>
</tr>
<tr>
<td>Drinking fountains, swimming pools</td>
<td>50 gross</td>
</tr>
<tr>
<td>Rest and pool</td>
<td>30 gross</td>
</tr>
<tr>
<td>Decks</td>
<td>15 gross</td>
</tr>
<tr>
<td>Stairs and platforms</td>
<td>15 net</td>
</tr>
<tr>
<td>Walkways</td>
<td>500 gross</td>
</tr>
</tbody>
</table>

**For SI: 1 square meter = 0.0929 sq ft**

*Please ensure to review final area according to code.*
SECTION 1004: OCCUPANT LOAD

1004.2.1 Intervening spaces or accessory areas. Where occupants egress from one or more rooms, areas or spaces through others, the design occupant load shall be the combined occupant load of interconnected accessory or intervening spaces. Design of egress path capacity shall be based on the cumulative portion of occupant loads of all rooms, areas or spaces to that point along the path of egress travel.

1004.2.2 Adjacent levels for mezzanines. That portion of the occupant load of a mezzanine with required egress through a room, area or space on an adjacent level shall be added to the occupant load of that room, area or space.

1004.2.3 Adjacent stories. Other than for the egress components designed for convergence in accordance with Section 1005.6, the occupant load from separate stories shall not be added.
1016.2 Egress through intervening spaces. Egress through intervening spaces shall comply with this section.

2. Egress from a room or space shall not pass through adjoining or intervening rooms or areas, except where such adjoining rooms or areas and the area served are accessory to one or the other, are not a Group H occupancy and provide a discernible path of egress travel to an exit.

Exception: Means of egress are not prohibited through adjoining or intervening rooms or spaces in a Group H, S or F occupancy when the adjoining or intervening rooms or spaces are the same or a lesser hazard occupancy group.
SECTION 1004: OCCUPANT LOAD

Area 1: 130
Area 2: 15
Area 3: 75
Area 4: 20
Area 5: 20
Area 6: 30
Floor: 100
Mezzanine: 30

Occupant Load:
- Area 1: 130
- Area 3: 75
- Area 5: 20
- Area 6: 30
- Area 4: 20
- Area 2: 15

Additional Notes:
- Mezzanine: 30
- Floor: 100
- Various footnotes and symbols present on the diagram.
1005.5. Distribution of minimum width and required capacity. Where more than one exit, or access to more than one exit, is required, the means of egress shall be configured such that the loss of any one exit, or access to one exit, shall not reduce the available capacity to less than 50 percent of the required capacity.
<table>
<thead>
<tr>
<th>Occupant Load</th>
<th>Egress Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>EX:2 100 160 320</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Occupant Load</th>
<th>Egress Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EX:1 100 160</td>
<td>EX:2 320</td>
</tr>
</tbody>
</table>
Governing Code Reference

$$\text{Code}$$

$$\text{Section}$$

FBC
303.1.1

FFPC
6.1.2.1
1016.2.1 Multiple tenants. Where more than one tenant occupies any one floor of a building or structure, each tenant space, dwelling unit and sleeping unit shall be provided with access to the required exits without passing through adjacent tenant spaces, dwelling units and sleeping units.

Exception: The means of egress from a smaller tenant space shall not be prohibited from passing through a larger adjoining tenant space where such rooms or spaces of the smaller tenant occupy less than 10 percent of the area of the larger tenant space through which they pass; are the same or similar occupancy group; a discernable path of egress travel to an exit is provided; and the means of egress into the adjoining space is not subject to locking from the egress side.

A required means of egress serving the larger tenant space shall not pass through the smaller tenant space or spaces.
SECTION 1023 : INTERIOR EXIT STAIRWAYS AND RAMPS

1023.7 Interior exit stairway and ramp exterior walls. Exterior walls of the interior exit stairway and ramp shall comply with the requirements of Section 705 for exterior walls.

Where nonrated walls or unprotected openings enclose the exterior of the stairway and the walls or openings are exposed by other parts of the building at an angle of less than 180 degrees,

the building exterior walls within 10 feet horizontally of a nonrated wall or unprotected opening shall have a fire-resistance rating of not less than 1 hour.

Openings within such exterior walls shall be protected by opening protectives having a fire protection rating of not less than $\frac{3}{4}$ hour.

This construction shall extend vertically from the ground to a point 10 feet above the topmost landing of the stairway or to the roof line, whichever is lower.
1011.5.2 Riser height and tread depth. Stair riser heights shall be 7 inches maximum and 4 inches minimum.

The riser height shall be measured vertically between the nosings of adjacent treads.

Rectangular tread depths shall be 11 inches minimum measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread’s nosing.

Winder treads shall have a minimum tread depth of 11 inches between the vertical planes of the foremost projection of adjacent treads at the intersections with the walkline and a minimum tread depth of 10 inches (254 mm) within the clear width of the stair.
1017.3.1 Exit access stairways and ramps. Travel distance on exit access stairways or ramps shall be included in the exit access travel distance measurement.

The measurement along stairways shall be made on a plane parallel and tangent to the stair tread nosings in the center of the stair and landings.

The measurement along ramps shall be made on the walking surface in the center of the ramp and landings.
SECTION 1016 : EXIT ACCESS TRAVEL DISTANCE
**Measurement.** Exit access travel distance shall be measured from the most remote point of each room, area or space along the natural and unobstructed path of horizontal and vertical egress travel to the entrance to an exit.
<table>
<thead>
<tr>
<th>OCCUPANCY</th>
<th>MAXIMUM OCCUPANT LOAD OF SPACE</th>
<th>MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Without Sprinkler System (feet)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Occupant Load</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OL ≤ 30</td>
</tr>
<tr>
<td>A, E, M</td>
<td>49</td>
<td>75</td>
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1017.2.1 Exterior egress balcony increase. Exit access travel distances specified in Table 1017.2 shall be increased up to an additional 100 feet (30 480 mm) provided the last portion of the exit access leading to the exit occurs on an exterior egress balcony constructed in accordance with Section 1021.

The length of such balcony shall not be less than the amount of the increase taken.
1021.1 General. Balconies used for egress purposes shall conform to the same requirements as corridors for width, required capacity headroom, dead ends and projections.

1021.2 Wall separation. Exterior egress balconies shall be separated from the interior of the building by walls and opening protectives as required for corridors.

Exception: Separation is not required where the exterior egress balcony is served by at least two stairs and a dead-end travel condition does not require travel past an unprotected opening to reach a stairway.
SECTION 1021 : EGRESS BALCONIES
SECTION 1027 : EXTERIOR EXIT STAIRWAYS AND RAMPS
SECTION 1018 : AISLES

Aisle. An unenclosed exit access component that defines and provides a path of egress travel.

Aisle Accessway. That portion of an exit access that leads to an aisle.

1018.1 General. Aisles and aisle accessways serving as a portion of the exit access in the means of egress system shall comply with the requirements of this section. Aisles or aisle accessways shall be provided from all occupied portions of the exit access which contain seats, tables, furnishings, displays and similar fixtures or equipment. The required width of aisles shall be unobstructed.

Exception: Encroachments complying with Section 1005.7.
SECTION 1020: CORRIDORS

CORRIDOR. An enclosed exit access component that defines and provides a path of egress travel.

Exit access corridors shall provide access to not less than two approved exits, unless otherwise provided in 7.5.1.1.3 (single) and 7.5.1.1.4 (common path).

FFPC 7.5.1.1.2

Where exits are not immediately accessible from an open floor area, continuous passageways, aisles, or corridors leading directly to every exit shall be maintained and shall be arranged to provide access for each occupant to not less than two exits by separate ways of travel, unless otherwise provided in 7.5.1.1.3 (single) and 7.5.1.1.4 (common path).

FFPC 7.5.1.1.1
SECTION 1020 : CORRIDORS

1020.4 Dead ends. Where more than one exit or exit access doorway is required, the exit access shall be arranged such that there are no dead ends in corridors more than 20 feet in length.

Exceptions:

1. In occupancies in Group I-3 of Occupancy Condition 2, 3 or 4 (see Section 308.5), the dead end in a corridor shall not exceed 50 feet.

2. In occupancies in Groups B, E, F, I-1, M, R-1, R-2, R-4, S and U, where the building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1, the length of the dead-end corridors shall not exceed 50 feet.

3. A dead-end corridor shall not be limited in length where the length of the dead-end corridor is less than 2.5 times the least width of the dead-end corridor.
1020.6 Corridor continuity. Fire-resistance-rated corridors shall be continuous from the point of entry to an exit, and shall not be interrupted by intervening rooms.

Where the path of egress travel within a fire-resistance-rated corridor to the exit includes travel along unenclosed exit access stairways or ramps, the fire resistance-rating shall be continuous for the length of the stairway or ramp and for the length of the connecting corridor on the adjacent floor leading to the exit.

Exceptions:

1. Foyers, lobbies or reception rooms constructed as required for corridors shall not be construed as intervening rooms.

2. Enclosed elevator lobbies as permitted by Item 1 of Section 1016.2 shall not be construed as intervening rooms.
1004.4 Multiple occupancies. Where a building contains two or more occupancies, the means of egress requirements shall apply to each portion of the building based on the occupancy of that space.

Where two or more occupancies utilize portions of the same means of egress system, those egress components shall meet the more stringent requirements of all occupancies that are served.
1006.3 Egress from stories or occupied roofs. The means of egress system serving any story or occupied roof shall be provided with the number of separate and distinct exits or access to exits based on the aggregate occupant load served in accordance with this section. Where stairways serve more than one story, only the occupant load of each story considered individually shall be used in calculating the required number of exits or access to exits serving that story.

1006.3.1 Adjacent story. The path of egress travel to an exit shall not pass through more than one adjacent story.
CHAPTER 11
ACCESSIBILITY

1101.1 Scope. This chapter governs the design and construction of buildings for accessibility.

1101.1.1 Criteria. Buildings shall be designed and constructed in accordance with the Florida Building Code, Accessibility.
HORIZONTAL EXIT. An exit component consisting of fire-resistance-rated construction and opening protectives intended to compartmentalize portions of a building or another building thereby creating refuge areas that afford safety from the fire and smoke from the area of origin.
MIXED USE BUILDING
Business, Residential, Assembly, Mercantile
TYPE II-B
Automatic Sprinkler System
4 STORIES
60' HIGH

FLORIDA FIRE PREVENTION CODE 7th Edition (2020)
12/31/2020
N.F.P.A. 101 2018
as modified by
Florida Administrative Cod Chapter 69A-66
EGRESS WIDTH PER PERSON: LEVEL 6.2 ; STAIR 6.3
MINIMUM STAIR WIDTH 44" if occupancy < 50 then 36"

ASSEMBLY
Chapter 12
OCCUPANT LOAD 1/15 NET
Occupants = 57
20' x 20' = 400
Facility = 1/10

MINIMUM CORRIDOR WIDTH 44", if occupancy < 50 then 36"
NO COMMON PATH OF TRAVEL OVER 20' ; 75' if OCCUPANCY <50
NO DEAD END CORRIDORS EXCEED 30'
MAXIMUM TRAVEL DISTANCE 250'

RESIDENTIAL APARTMENT
Chapter 30
OCCUPANT LOAD 1/200 GROSS
MINIMUM CORRIDOR WIDTH 44", if occupancy < 50 then 36"
COMMON PATH OF TRAVEL outside UNIT 85'
NO DEAD END CORRIDORS EXCEED 50'
MAXIMUM TRAVEL DISTANCE FROM DWELLING DOOR 200'
MAXIMUM TRAVEL DISTANCE FROM NON-DWELLING 200'

MERCANTILE
Chapter 36
Class A  >30,000 sf  or > 3 stories
Class B  >3,000 sf  <30,011 sf  > 4 stories
Class C  <3,001 sf  3 story
OCCUPANT LOAD STREET 1/30 GROSS
OCCUPANT LOAD 1/40 GROSS
MINIMUM CORRIDOR WIDTH 44", if occupancy < 50 then 36"
NO COMMON PATH OF TRAVEL OVER 50'
NO DEAD END CORRIDORS EXCEED 50'
MAXIMUM TRAVEL DISTANCE 250'

BUSINESS
Chapter 38
OCCUPANT LOAD 1/100 GROSS
MINIMUM CORRIDOR WIDTH 44", 36' if occupancy < 50
NO DEEL END RORIDORS EXCEED 50'
MAXIMUM TRAVEL DISTANCE 300'

FLORIDA BUILDING CODE 7th Edition (2020)
12/31/2020
EGRESS WIDTH PER PERSON: LEVEL 6.2 ; STAIR 6.3
MINIMUM STAIR WIDTH 44" if occupancy < 50 then 36"

ASSEMBLY
GROUP A
OCCUPANT LOAD 1/15 NET
Occupants = 57
20' x 20' = 400
Facility = 1/10

MINIMUM CORRIDOR WIDTH 44", if occupancy < 50 then 36"
NO COMMON PATH OF TRAVEL OVER 75'
NO DEAD END CORRIDORS EXCEED 30'
MAXIMUM TRAVEL DISTANCE 250'

RESIDENTIAL
GROUP B2
OCCUPANT LOAD 1/200 GROSS
MINIMUM CORRIDOR WIDTH 44", if occupancy < 50 then 36"
NO COMMON PATH OF TRAVEL OVER 75'
NO DEAD END CORRIDORS EXCEED 50' ; 28' NFPA 13-R
MAXIMUM TRAVEL DISTANCE 250'

MERCANTILE
GROUP M
OCCUPANT LOAD STREET 1/30 GROSS
OCCUPANT LOAD 1/40 GROSS
MINIMUM CORRIDOR WIDTH 44", 36' if occupancy < 50
NO COMMON PATH OF TRAVEL OVER 100'
NO DEAD END CORRIDORS EXCEED 50'
MAXIMUM TRAVEL DISTANCE 300'

BUSINESS
GROUP B
OCCUPANT LOAD 1/100 GROSS
MINIMUM CORRIDOR WIDTH 44", 36' if occupancy < 50
NO DEAD END CORRIDORS EXCEED 50'
MAXIMUM TRAVEL DISTANCE 300'
LIFE SAFETY SYMBOLS
NFP A 170

EGRESS COMPONENT IDENTIFIER
- EX# = EXIT ID
- EA# = EXIT ACCESS ID
- HE = HORIZONTAL EXIT
- CP = COMMON PATH OF TRAVEL
- PD = PUBLIC DISCHARGE
- RD = ROOM DOOR
- ES = ESCAPE

TRAVEL DISTANCE SYMBOL
- EGRESS COMPONENT DISTANCE TO

EGRESS COMPONENT CAPACITY
GOVERNING COMPONENT CAPACITY

CAPACITY
- OCCUPANCY CAPACITY SYMBOL
- SQUARE FEET PER PERSON
- NET AREA (SQUARE FEET)

CODE SECTION
- FPFC = FLORIDA FIRE PREVENTION CODE
- FBC = FLORIDA BUILDING CODE

GOVERNING CODE REFERENCE

EXIT ACCESS
- EXIT
- EXIT DISCHARGE

Wall Ratings shown are for Life Safety Plan requirements. Not for Building Type/Shafts.
- 1 HOUR RATED WALL
- 2 HOUR RATED WALL
- FIRE WALL
- SMOKE PROTECTION

3/4 HOUR RATED

1 1/2 HOUR RATED

PH PANIC HARDWARE
- FIRE extinguisher
- EXIT SIGN
- EXIT SIGN with Emergency Lights

EMERGENCY LIGHT
- MANUAL PULL STATION
- HORNS/VISIBLE
- PRESSURIZED
- FIRE SERVICE ACCESS ELEVATOR
- FIRE TEST ID
### First Story non-separated Mixed Occupant Load

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E:EX-1  E:EX-2  E:EX-M

E:EX-A1  E:EX-A2
Portable Fire Extinguishers

First Story
protected area
29,194

FE:2-1  2A-10B:C  △  6,000  light
FE:2-2  2A-10B:C  △  6,000  light
FE:2-3  4A-80B:C  △  11,250 light
FE:2-4  4A-80B:C  △  11,250 light

34,500

Second Story
protected area
29,194

FE:2-1  4A-80B:C  △  6,000  ordinary
FE:2-2  4A-80B:C  △  6,000  light
FE:2-3  4A-80B:C  △  11,250 light
FE:2-4  4A-80B:C  △  11,250 light
FE:2-5  4A-80B:C  △  6,000  light

40,500

BOAF-AIA-FES Joint Task Force

This demo drawing does not demonstrate Building Code requirements.
This drawing demonstrates how to show a designs Building Code compliance.

Life Safety Plan Demo

updated 10/10/2019
5/24/2011
QUESTIONS

annex

EVACUATION PLANS

brad@TAXIS-usa.com
239.254.0285
EMERGENCY GUIDELINES

A. FAMILIARIZE YOURSELF WITH ALL EXITs.
B. KNOW WHERE THE FIRE ALARM PULL BOXES AND FIRE EXTINGUISHERS ARE LOCATED.
C. BUILDING EVACUATION - WHEN HORN / STROBE SOUNDS, EVACUATE BUILDING AND PROCEED TO A DESIGNATED OUTSIDE ASSEMBLY AREA.
D. SEEK SHELTER - IN CASE OF TORNADO OR SEVERE WEATHER, UTILIZE THE DESIGNATED SHELTER AREAS. (ENCLOSED, WINDOWLESS STAIRWAYS / RESTROOMS & CONFERENCE ROOMS)
E. ALL CLEAR - FOLLOW INSTRUCTIONS GIVEN BY MANAGEMENT.
F. DO NOT USE THE ELEVATOR(S) DURING EVACUATIONS.