

Building Codes/Standards for different regions

UAE

UAE Fire and Life Safety Code of Practice



RELEVANT SECTIONS AND STANDARDS

Chapter 3 Means of Egress

2.2 General Requirements

2.2.4. Every exit shall be clearly visible, or the route to reach every exit shall be conspicuously indicated. Each means of egress and its entirety, shall be arranged or marked so that the way to a place of safety is indicated in a clear manner.

7.1.15. Egress Path Marking

i. ANSI/UL 1994, Standard for Luminous Egress Path Marking Systems.

(Note: Ecoglo photoluminescent egress path markings have **UAE UL 1994** Certificate of Compliance.)

Chapter 5 Exit Signs

1.2.4. Photoluminescent Sign

Signs made up of Photoluminescent material where luminescence (visible light) results from the absorption of light or infrared or ultraviolet radiation .

2.2 General

2.2.5. During loss of power in the building, the exit signs shall be illuminated using building emergency power or building emergency lighting or Signs shall be Photoluminescent where upon loss of power, the signs are reilluminated and clearly visible.

2.3.Exit Sign and Directional Sign Specifications

2.3.1. The exit Sign and Directional marking specification shall be as per Table 5.1.

Table 5.1: Specifications of Exit Signs and Directional Markings

ITEMS	REQUIREMENTS
4. PHOTOLUMINESCENT SIGNS AND STRIPS	i. The face of photoluminescent signs and strips shall be continually illuminated while the building is occupied.
	ii. Minimum of 54 lux (5 foot-candles) of artificial light shall be illuminating the Photoluminescent surface during normal and emergency conditions.
	iii. The Photoluminescent signs and strips shall be within 3m of such illumination source.
	iv. The illumination levels on the face of the Photoluminescent sign shall be in accordance with its listing.
	v. The charging illumination shall be a reliable light source, as per its listing. The charging light source shall be of a type specified in the product markings.
	vi. Photoluminescent signs shall not be installed where continuous illumination is not available during non-emergency situations. (Photoluminescent signs need a specific minimum level of light on the face of the sign to ensure that the sign is charged for emergency operation and legibility in both the normal and emergency modes. Additionally, the type of light source (e.g., incandescent, fluorescent, halogen, metal halide) is important. Each light source produces different types of visible and invisible light (e.g., UV) that might affect the ability of some Photoluminescent signs to charge and might also affect the amount of light output available during emergency mode.)

3. Application of Exit Signs and Directional Marking

3.1. The application of Exit Signs and Directional Marking shall be as per Table 5.3.

Table 5.3: Application of Exit Signs and Directional Markings

LOCATION	REQUIREMENTS
6. ASSEMBLY OCCUPANCIES	i. Exit Signs and Directional Signs shall be provided as per Section 3. ii. All assembly occupancies shall be provided with Floor proximity Signs as per Table 5.1.7. iii. Tactile Signs, in compliance with Table 5.1.3. shall be installed at every exit . iv. Wash rooms shall be provided with Directional Signs as per Table 5.1.2. v. In special amusement buildings where mazes, mirrors, or other designs are used to confound the egress path, Directional exit marking in compliance with Table 5.1.2., that becomes apparent in an emergency shall be provided. vi. All amusement parks, indoor rides, theme parks, play areas shall be provided with Photoluminescent Exit Marking strips per Table 5.1. 4. vii. Night Clubs and Discos shall be provided with Photoluminescent Exit Marking strips per Table 5.1. 4. viii. Theaters and Cinemas shall be provided with Photoluminescent Exit Marking strips as per Table 5.1 .4. ix. Evacuation Plan shall be provided on each floor and at multiple locations as per Table 5.1.8.
8. EDUCATIONAL	i. Exit Signs and Directional Signs shall be provided as per Section 3. ii. Nurseries shall be provided with Photoluminescent Exit Marking strips as per Table 5.1. 4. iii. Auditoriums shall be provided with Photoluminescent Exit Marking strips as per Table 5.1. 4. iv. Evacuation Plan shall be provided on each floor and at multiple locations as per Table 5.1.8.

15. STORAGE AND INDUSTRIAL OCCUPANCIES	<ul style="list-style-type: none"> i. Exit Signs and Directional Signs shall be provided as per Section 3. ii. High hazard areas (GROUP A-1 and GROUP A-2), Robotic storage and cold storage areas, industrial basements, Cable spread areas, shall be provided with Photoluminescent Exit Marking strips as per Table 5.1. 4. iii. Evacuation Plan shall be provided on each floor and at multiple locations as per Table 5.1.8.
16. MALLS	<ul style="list-style-type: none"> i. Exit Signs and Directional Signs shall be provided as per Section 3. ii. Tactile Signs, in compliance with Table 5.1.3. shall be installed at every exit. iii. Play areas, Food courts and Cinema areas shall be provided with Photoluminescent Exit Marking strips as per Table 5.1. 4. iv. Evacuation Plan shall be provided on each floor and at multiple locations as per Table 5.1.8. v. Evacuation plans shall not be required at individual tenants.
17. PARKING	<ul style="list-style-type: none"> i. Exit Signs and Directional Signs shall be provided as per Section 3. ii. The vehicle exit route Signs shall be clearly distinguishable in size, in colour and in format from Exit Signs and Directional Signs as required by this chapter. iii. Robotic/Mechanical parking shall be provided with Photoluminescent Exit Marking strips on access walkways as per Table 5.1. 4. iv. Evacuation Plan shall be provided on each floor and at multiple locations as per Table 5.1.8.

3.3 Stair

3.3.1. Stairs can be used as a component in the means of egress, whether interior or exterior to a building, serve multiple functions, allowing normal occupant movement among floors of building, providing egress during emergencies and fires and facilitating rescue and fire control operations by Fire fighters.

Table 3.4: Stair	
ITEMS	REQUIREMENTS
9. ILLUMINATION FOR STAIR	<ul style="list-style-type: none"> i. Exit stair shall be illuminated at all times that the building is occupied. Lighting control devices that turn lighting on and off based on occupant movement or presence shall be permitted. ii. Lighting control devices that dim the lighting levels within the exit enclosure shall not be installed unless they provide a minimum of 1 ft-candle (10.8 lux) of illumination within the exit enclosure measured at the walking surface. iii. Where stair is provided with Photoluminescent strips or marking, the lighting used to charge such Photoluminescent materials shall not be controlled by motion sensors. iv. Where stair is provided with window for illumination, such window pane shall be fixed, 2 hour fire resistance rated and non-operable.

5.1.3. Exit Signs

i. ANSI/UL 924, Standard for Emergency Lighting and Power Equipment.

(Note: Ecoglo's range of photoluminescent UL 924 signs have UAE UL 924 Certificate of Compliance.)

5.1.5. Photoluminescent Signs

i. UL 1994, Standard for Luminous Egress Path Marking Systems

(Note: Ecoglo's range of UL1994 signs have UL 1994 Certificate of Compliance.)

Chapter 6 Emergency Lighting

8. Emergency Lighting Material Test Standards and Approval.

8.1. Acceptable Test Standards and criteria

8.1.3. Self Contained Emergency Lighting Units

- i. ANSI/UL 924, Standard for Emergency Lighting and Power Equipment.**

8.1.4. Monitored Type Emergency Lighting System

- i. UL 924, Standard for Emergency Lighting and Power Equipment.**

8.1.5. Central Battery Emergency Lighting Systems

- ii. ANSI/UL 924, Standard for Emergency Lighting and Power Equipment.**

8.1.7. Exit Signs

- i. ANSI/UL 924, Standard for Emergency Lighting and Power Equipment.**

8.1.8. Tactile Signs

- i. UL 924, Standard for Emergency Lighting and Power Equipment**