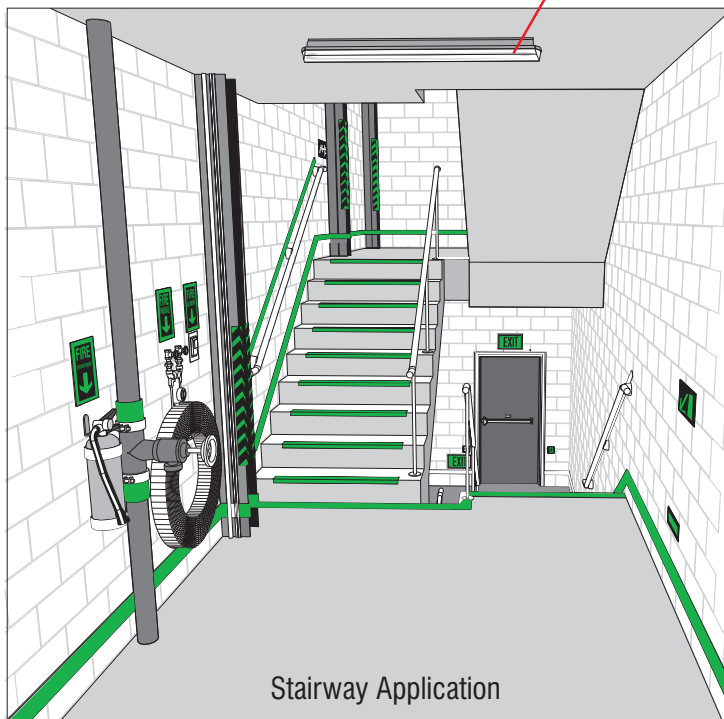


PROJECT NAME:	APPROVED BY:
CATALOG NO:	TYPE NO:

# WAYMARKER - Luminous Egress Path Marking System

## High Performance Photoluminescent

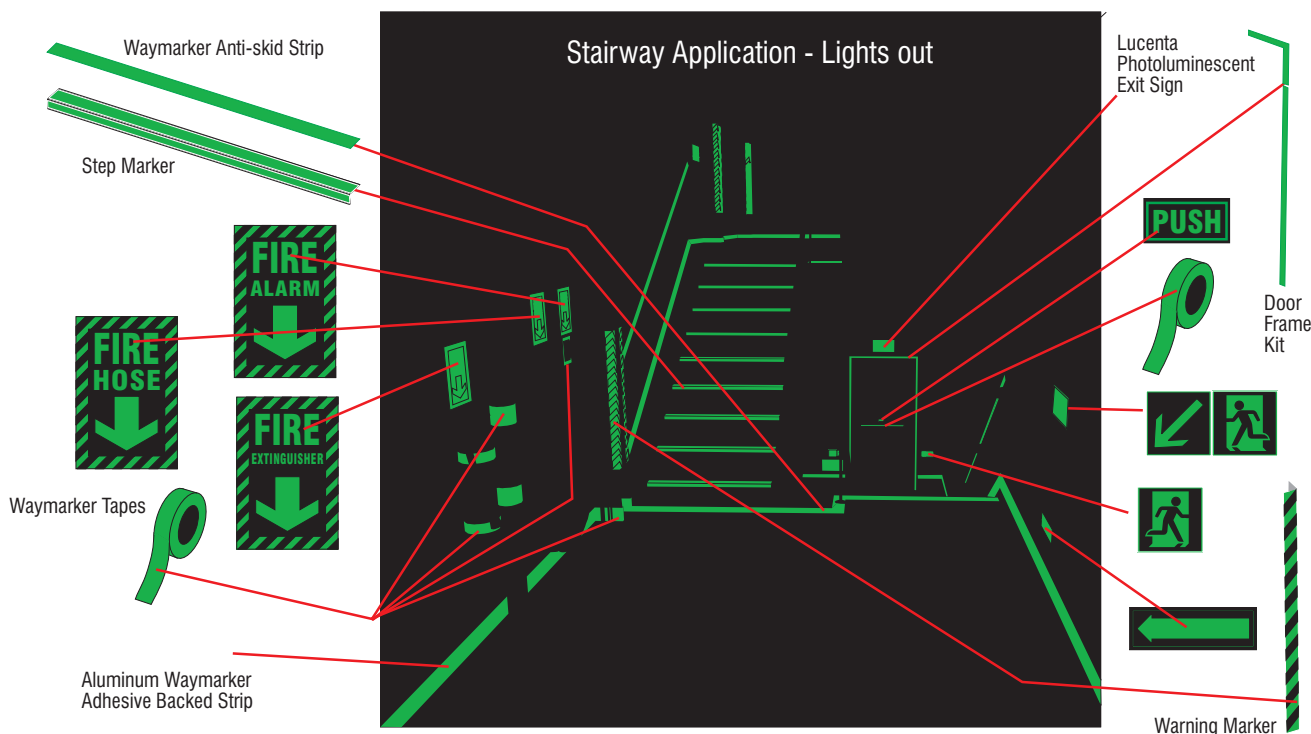
Fluorescent Lighting Fixture provides charging source.



### Waymarker Escape Route Marking Systems

The 2009 International Building Code and the 2009 International Fire Code now require Photoluminescent Egress Marking Systems in "buildings of Groups A, B, E, I, M and R-1 having occupied floors located more than 75 feet (2,860 m) above the lowest level of fire department vehicle access in accordance with Sections 1024 through 1024.5." New York City has already adopted their own code, RS-6 in 2006, and many other states are considering or have adapted the 2009 IBC and IFC for egress marking systems.

Way Marking does not replace Emergency Lighting Systems which are mandated nationally. Rather, it is used to more readily define the escape route in the extraordinary event that the Emergency Lighting System fails, the photoluminescent marking system generates an after-glow once charged by a suitable light source to ensure visibility in total darkness.



# Waymarker High Performance Photoluminescent Luminous Egress Path Marking System

## Section 1024 Luminous Egress Path Markings\*

**1024.1 General.** Approved luminous egress path markings delineating the exit path shall be provided in buildings of Groups A, B, E, I, M, and R-1 having occupied floors located more than 75 feet above the lowest level of fire department vehicle access in accordance with Sections 1024.1 through 1024.5

**Exceptions: 1.** Luminous egress path markings shall not be required on the level of exit path discharge in lobbies that serve as part of the exit path in accordance with Section 1027.1, exception 1.

**2.** Luminous egress path markings shall not be required in areas of open parking garages that serve as part of the exit path in accordance with section 1027.1, Exception 3.

**1024.2 Marking within exit enclosures.** Egress path marking shall be provided in exit enclosures, including vertical exit enclosures and exit passageways, in accordance with sections 1024.2.1 through 1024.2.6

**1024.2.1 Steps.** A solid and continuous stripe shall be applied to the horizontal leading edge of each step and shall extend for the full length of the step. Outlining stripes shall extend have a minimum horizontal width of 1 inch (25 mm) and a maximum width of 2 inches (51 mm). The leading edge of the stripe shall be placed at a maximum of 1/2 inch (13 mm) from the leading edge of the step and the stripe shall overlap the leading edge of the step by not more than 1/2 inch (13 mm) down the vertical face of the step.

**Exception:** The minimum width of 1 inch (25 mm) shall not apply to outlining stripes listed in accordance with UL 1994.

**1024.2.2 Landings.** The leading edge of landings shall be marked with a stripe consistent with the dimensional requirements for steps.

**1024.2.3 Handrails.** All handrails and handrail extensions shall be marked with a solid and continuous stripe having a minimum width of 1 inch (25 mm). The stripe shall be placed on the top surface of the handrail for the entire length of the handrail including extensions and newel post caps. Where handrails or handrail extensions bend or turn corners the stripe shall not have a gap of more than 4 inches (102 mm).

**Exception:** The minimum width of 1 inch (25 mm) shall not apply to outlining stripes listed in accordance with UL 1994.

**1024.2.4 Perimeter demarcation lines.** Stair landings and other floor areas within exit enclosures, with the exception of the side of steps, shall be provided with solid and continuous demarcation lines on the floor or on the walls or a combination of both. The stripes shall be 1 to 2 inches (25 mm to 51 mm) wide with interruptions not exceeding 4 inches (102 mm).

**Exception:** The minimum width of 1 inch (25 mm) shall not apply to outlining stripes listed in accordance with UL 1994.

**1024.2.4.1 Floor-mounted demarcation lines.** Perimeter demarcation lines shall be placed within 4 inches (102 mm) of the wall and shall extend to within 2 inches (51 mm) of the marking on the leading edge of landings. The demarcation lines shall continue across the floor in front of all doors.

**Exception:** Demarcation lines shall not extend in front of exit doors that lead out of an exit enclosure and through which occupants must travel to complete the exit path.

\*Excerpted from IBC, IFC 2009

**1024.2.4.2 Wall-mounted demarcation lines.** Perimeter demarcation lines shall be placed on the wall with the bottom edge of the stripe no more than 4 inches (102 mm) above the finished floor. At the top or bottom of the stairs, demarcation lines shall drop vertically to the floor within 2 inches (51 mm) of the step or the leading edge. Demarcation lines on the walls shall transition vertically to the floor and then extend across the floor where a line on the floor is the only practical method of outlining the path. Where the wall line is broken by a door, demarcation lines on walls shall continue across the face of the door or transition to the floor and extend across the floor in front of such door.

**Exception:** Demarcation lines shall not extend in front of exit doors that lead out of an exit enclosure and through which occupants must travel to complete the exit path.

**1024.2.4.3 Transition.** Where a wall mounted demarcation line transitions to a floor-mounted demarcation line, or vice versa, the wall-mounted demarcation line shall drop vertically to the floor to meet a complimentary extension of the floor-mounted demarcation line, thus forming a continuous marking.

**1024.2.5 Obstacles.** obstacles at or below 6 feet 6 inches (1981 mm) in height and projecting more than 4 inches (102 mm) into the egress path shall be outlined with markings no less than 1 inch (25 mm) in width comprised of a pattern of alternating equal bands of luminescent luminous material and black, with the alternating bands no more than 2 inches (51 mm) thick and angled at 45 degrees (0.79 rad). Obstacles shall include, but are not limited to, standpipes, hose cabinets, wall projections and restricted height areas. However, such markings shall not conceal any required information or indicators including, but not limited to, instructions to occupants for the use of standpipes.

**1024.6 Doors from exit enclosures.** Doors through which occupants within an exit enclosure must pass in order to complete the exit path shall be provided with markings complying with Sections 1024.2.6.1 and 1024.2.6.3

**1024.2.6.1 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 (102 mm) in height and shall be mounted on the door, centered horizontally, with the top of the symbol no higher than 18 inches (457 mm) above the finished floor.

**1024.2.6.2 Door hardware markings.** Door hardware shall be marked with no less than 16 square inches (406 mm<sup>2</sup>) of luminous material. This marking shall be located behind, immediately adjacent to or on the door handle and/or escutcheon. Where a panic bar is installed such material shall be no less than 1 inch (25 mm) wide for the entire length of the actuating bar or touchpad.

**1024.2.6.3 Door frame markings.** The top and sides of the door frame shall be marked with a solid and continuous 1 inch to 2 inch (25 mm to 51 mm) wide stripe. Where the door molding does not provide sufficient flat surface on which to locate the stripe, the stripe shall be permitted to be located on the wall surrounding the frame.

**1024.3 Uniformity.** Placement and dimensions of markings shall be consistent and uniform throughout the same exit enclosure.

**1024.4 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 are not limited to, self-luminous materials and photoluminescent materials. Materials shall comply with either:

1. UL 1994; or

2. ASTM E 2072, except that the charging source shall be 1 foot-candle (11 lux) of fluorescent illumination for 60 minutes, and the minimum luminance shall be 30 millicandelas per square meter at 10 minutes and 5 millicandelas per square meter after 90 minutes.

**1024.5 Illumination.** exit enclosures where photoluminescent exit path markings are installed shall be provided with the minimum means of egress illumination required by Section 1006 for at least 60 minutes prior to periods when the building is occupied.