



IMPROVING BUILDINGS SAFETY THROUGH TECHNOLOGY

- All NIGHTBRIGHT photoluminescent signs are non-electric, non-toxic and non-radioactive.
- We use the latest photoluminescent technology with high-grade Strontium Aluminate industrial pigments (PHOSPHORESCENT, PHOTOLUMINESCENT and FLUORESCENT PIGMENTS) that absorb and store normal ambient light.
- In the event of a sudden power outage, the stored light energy is immediately visible, enabling the NIGHTBRIGHT evacuation guidance systems to provide a safe illuminated path through dark stairwells, hallways and rooms.

There are several important reasons why all high-rise buildings should install a photoluminescent directional system.

In the event of a building evacuation due to a sudden blackout or smoke conditions NIGHTBRIGHT Photoluminescent [Glow in the dark] Safety Egress Signs and Systems, provides Building owners with comprehensive evacuation guidance systems.

NIGHTBRIGHT offers a full range of glow-in-the-dark self-illuminating sign systems.

Our photoluminescent safety sign systems are absolutely essential to providing a comprehensive, clearly identifiable, low-level emergency evacuation route capable of guiding people to safety in the event of an emergency evacuation.

WHAT IS PHOTOLUMINESCENT?

Photoluminescent signs and paint (commonly called "glow-in-the-dark") emit light as a result of being exposed to ambient light.

As the material absorbs light rays, it stores energy. Upon removal of the light source, the stored light is gradually released, producing a visible glow that fades over a period of time.

The glow-in-the-dark products produced with these photoluminescent, phosphorescent light-producing properties can range from novelty to superior industrial safety grade.

The safety grade photoluminescent materials are sometimes referred to as HPPL (High Performance Photoluminescent Lighting) materials.

NIGHTBRIGHT uses only safety grade industrial high performance photoluminescent pigments.

NIGHTBRIGHT evacuation guidance systems are simple and cost effective to install. There are no light bulbs to burn out; the photoluminescent evacuation systems are virtually maintenance-free.

Using periodic inspections and minimal maintenance (keeping the face of the signs clean and unobstructed); the safety evacuation guidance systems can last for 25+ years.



NYC Building Code upgrades...Local Law 26 has been amended...

In New York City, recent legislation has been passed that will require all commercial high-rise buildings 75 feet or higher to "Improve marking of the egress path, doors and stairs with photo-luminescent materials and retrofit existing exit signs with either battery or generator backup power".

Photoluminescent markings used in the World Trade Center enabled the safe escape for thousands of tenants of the WTC on September 11, 2001.

Following the tragic events of 9-11, NYC established a building code task force to review current building design, construction and operating requirements to determine if modifications were needed to ensure public safety in new and existing buildings. The goal of the task force was to examine the Building code for areas that could enhance public safety in a practical and economically viable way.

The task force's findings found that the clarity or "readability" of the egress path is essential for a successful evacuation. When fire or another threatening condition (smoke or darkness) impedes sensory perception, decision making for evacuees should be made much easier by using systems that improve marking and readability of the emergency egress pathway, exit doors and emergency exit stairs by using photoluminescent materials.

The results of the studies conducted after 9-11 on the WTC continues being reviewed worldwide. The end result will lead to a higher level of public safety in buildings everywhere.

The World Trade Center Building Code Task Force has made changes to NYC Fire and Building Codes.

GLOW-IN-THE-DARK SIGNS ARE NOW PART OF THE LAW!

NYC Local Law 26 of 2004. Installation Deadline is 07/01/06. Be Prepared.

Evidenced by current events happening throughout the world power failures, hurricanes, earthquakes, natural disasters, acts of terrorism and fires can happen at any time of the day or night. Panic and fear can easily occur so preparedness is the key to safety.

Photoluminescence is the most economical and foolproof method to ensure that people can easily find and use the path to a safe emergency exit.

Using Photoluminescent Emergency exit/egress systems will clearly point out escape routes in darkened environments. This is imperative to aid people's abilities to find their way out of a building quickly, efficiently and safely.

According to statistics 73% of deaths during fires in buildings are caused by smoke. Fires produce dense smoke, which rapidly fill buildings very quickly from the ceiling down.

Many accidents can happen when people try to evacuate buildings during power failures and fires. It is in these instances that lighting is limited or is no longer available. Use of Photoluminescent signs and low-level way finding markers can save lives.



During the September 11th, 2001 attacks on the World Trade Center, many of the buildings occupants escaped the collapse and were able to evacuate safely because the Port Authority of NYC had placed Photoluminescent paint and other markings on the exit pathways. The use of Photoluminescent markers followed the bombing of the World Trade Center in 1993.

The full benefits of Photoluminescent materials are realized when there is:

- 1) Reduced light or smoke from fires in buildings.
- 2) Where there are way finding difficulties.
- 3) Where not all routes are familiar to the majority of building users.

Photoluminescent Safety Egress Systems

Photoluminescent Emergency egress systems address several safety and evacuation problems. Using Photoluminescent markers, signs, way finding markers and direction indicators at ground level help to overcome the problems in emergency evacuation caused by lack of visibility and disorientation in smoke conditions.

Photoluminescent emergency egress/exit systems are used in;

- buildings,
- ships,
- military installations,
- underground railways,
- tunnels,
- mines,
- refineries
- and other industrial facilities.

Photoluminescent signs and markings provide clear and visible directions to help ensure a safe emergency evacuation and prevent panic if power fails.

Photoluminescent signs and markers are especially useful when:

1. There is no emergency lighting.
2. The emergency lighting fails to work.
3. Smoke obscures the emergency lighting.

There are various types of Photoluminescent signs and markers. NIGHTBRIGHT offers a wide selection of the best Glow-In-The-Dark building Safety Products available.

There are assorted Photoluminescent stripes and bands or arrows on walls, floors and stairs, on and around doors, marking emergency equipment and as printed signs and diagrams.

The Need - Evacuation in Darkness or Smoke

The need to evacuate a building can occur for many reasons; Fires, blackouts, power failures and other public emergencies. When an evacuation of a building occurs in darkness or in a smoke condition, the evacuation becomes more difficult and dangerous. People become disorientated in the dark.

In numerous documented cases, evacuees can actually go in the wrong direction away from the proper emergency exit and become trapped. This is a major cause of fire fatalities.

In the event of a fire, smoke develops when materials burn, greatly reducing visibility. Even if emergency or normal lighting is operating perfectly, the smoke can hinder the clear path to exits.

Photoluminescent signs and markers save lives:

1. When lights suddenly go out, a person in an inner room can now easily see the exit door sign, and emergency exit door handle.
2. The walls are marked with a Photoluminescent bands showing the way out.
3. Photoluminescent bands (stripes) and arrows show the direction of an exit. Fire extinguishers and Fire Hoses are identified with glow-in-the dark signs. Exit doors are surrounded by a Photoluminescent band (stripes); leaving non-exit door unmarked so as not to confuse evacuees.
4. On stairs, striping will illuminate the stairs, arrows point to the direction of outside exits.
5. At ground level (low level way finding markers), show exits marked with arrows pointing to exit doors, other Photoluminescent bands (stripes) surround and illuminate emergency exit signs. Markers and arrows are placed low so that if a smoke condition is present and evacuees are crawling to safety (as smoke rises) they can follow the arrows and markers.
6. A Photoluminescent exit route plan shows the nearest emergency exit and alternative emergency routes.
7. In industrial facilities and offshore marine facilities and ships, ladders are marked with Photoluminescent materials; glow-in-the-dark stripes lead evacuees to the main emergency exit routes.

The major benefits of Photoluminescent systems are:

- Photoluminescent emergency exit signs and low level way finding markers are not dependent upon any mechanical device that can fail.
- Photoluminescent emergency exit signs and low level way finding markers function under any conditions, including heavy smoke.
- Photoluminescent emergency exit signs and low level way finding markers help the safe, orderly and speedy evacuation of buildings in blackout conditions.
- Photoluminescent emergency exit signs and low level way finding markers actually assist people when no evacuation is called for; they provide people with clear exit markings and aid in providing orientation.
- Photoluminescent emergency exit signs and low-level way finding markers cannot fail, ever, provided they have been exposed to normal lighting levels prior to darkened conditions.
- Photoluminescent emergency exit signs and low level way finding markers function even in heavy smoke conditions that would obscure electrically operated emergency lighting systems.



- Photoluminescent emergency exit signs and low level way finding markers are easy and economical to install and maintain (essentially they are maintenance free).
- Photoluminescent emergency exit signs and low level way finding markers require no electricity, zero maintenance and are not affected by heat or cold and explosion.
- Photoluminescent emergency exit signs and low level way finding markers require no additional expenses. The signs and striping need no maintenance other than occasional cleaning when necessary. It is unnecessary to check their function. Visual inspections are all that is needed.

NIGHTBRIGHT offers a full range of Photoluminescent products:

- Emergency Pathway Signs & Markers
- MEA / NYC and UL 924 Exit Signs
- Building Emergency Evacuation Signs / Emergency Egress Systems
- Low-Level Exit Signs
- Hazard Tape & Marking Systems
- Industrial & Danger Signs
- Building Safety / Facility Safety / Industrial Safety
- Emergency Stair PL Marking Systems

Today's buildings are more complex than ever before.

Buildings contain assorted forms of machinery, offices, conveying belts, shelves, storage bins, parts, supplies, furniture, computers and process control equipment. All of these things can impede the exit to safety in the event of an emergency.

Operating under normal conditions, workers and occupants can easily find their way through the labyrinth of obstacles, but in an emergency situation where vision is impaired by darkness or a smoke condition, obstacles can result in disaster for people trying to evacuate.

When there is an emergency, smoke or power outage, people evacuating can become confused, disoriented and sometimes panic. In emergency situations the No.1 concern is to move people quickly from danger to safety.

Using NIGHTBRIGHT Photoluminescent "glow-in-the-dark" Emergency Exit Signs, Emergency Pathway Marking Systems and Low-Level Exit Signs will reduce confusion and avoid panic.

Our NIGHTBRIGHT Photoluminescent safety signs can help to save lives by clearly illuminating the path to exits and safety.