Photoluminescent step edge, path finding, handrail and exit sign products for both outdoors and indoors

Reduce slips and falls with recycled light

www.ecoglo.ca
www.us.ecoglo.com
HOW THE ECOGLO SYSTEM WORKS
Ecoglo uses a patented process to produce a range of products that provide a four pronged solution to pathfinding needs:

- step edge contrast
- slip-resistance
- visibility in all light conditions
- resistance to wear

ROUGH
The hard wearing silicon carbide non-slip material is just what you need to reduce slips and falls in all weather conditions. Your patrons will commend you, not complain to you. With their UV resistance and good looks, you can confidently install Ecoglo products inside and out.

TOUGH
Our patented process bakes in the photoluminescent powder and non-slip material and you get to savor the results. Thousands of people can walk on these products thousands of times with no wear and tear. And just to make sure, we’ve put them through extensive testing at internationally accredited laboratories relating to durability, weather resistance, UV resistance, stain resistance, abrasion and cleaning. And they passed with flying colors.

SEEN
Unlike electrical or battery lighting, Ecoglo products will never let you down. They will glow brightly in the dark for many hours giving your patrons confidence in exiting, even in an emergency. Some steps are just too hard to see, whether it be day or night. With Ecoglo, you can be sure your patrons will see the steps, not fall down them, whatever the light conditions. It’s the combination of the photoluminescent strip and the non-slip material that creates such great step edge definition.

GREEN
Every small step you take to reduce electricity usage helps save our environment. Ecoglo products let you recycle natural sunlight or artificial light. No electricity is required. Ecoglo also goes green by using recycled aluminum. All products are non-toxic and non-radioactive. Designed to last the life of your facility, Ecoglo avoids maintenance costs. Ultimately, Ecoglo is recyclable which avoids the cost of landfill dumping.

HOW TO SPECIFY ECOGLO PRODUCTS
Ecoglo provides several design file formats for its products in order to make the job of specifying easier than ever. From step edge contrasts, stair nosings, pathway marking, egress signs, and more, you now have more choices when specifying Ecoglo products for your next project.

Whether you need 2D CAD drawings, 3-part specifications, brochures, videos, installation instructions, and now BIM (Revit) objects, Ecoglo has you covered.

Online Resources
- www.caddetails.com
- www.todl.com
- www.aecdaily.com
The Ecoglo Photoluminescent (PL) range of products provide significant benefit during low light conditions and emergency blackout situations. With a proven track record in reducing slips and falls Ecoglo products provide improved health and safety with additional benefits in any smoke hazard situation.

Used for way-marking, step nosings and signage, the products are UV stable and highly durable, lasting for many years. The products are easily installed and have minimal maintenance costs.

**COMPARATIVE ADVANTAGE**

**ECOGLO**

*Luminance*

Ecoglo products are manufactured using a patented process that is only used by Ecoglo. This tightly controlled application embeds the photoluminescent particles in a clear durable polymer.

The physical nature of the dry powder embedding process and the optical properties of the polymer ensure maximum efficiency of the photoluminescent particles to absorb useful wavelengths from a natural or artificial light source. This light the re-emits from the product towards a viewers eye.

Ecoglo products use a custom produced photoluminescent pigment which has greater longevity of glow than all the other pigments (over 100) which Ecoglo has sampled since 2001.

Ecoglo uses dry powder for maximum luminance.

*Visibility*

All Ecoglo products are engineered to provide greater visibility than relevant codes and standards currently require. Photoluminescent visibility is affected by more than just brightness (‘Luminance’); the other factor is contrast against adjacent surfaces.

Contrast against adjacent surfaces is the critical parameter for visibility on a step edge. Ecoglo step-edge products incorporate a black anti-slip strip that provides excellent luminance contrast and color contrast to the PL strip, so the step edge is clearly defined in all lighting conditions: dark conditions, light conditions and twilight or dim conditions.

This means the Ecoglo products are visible from a greater distance and for a longer time after the lights go out. Ecoglo incorporates a black anti-slip strip for maximum visibility and edge contrast.

**NON-ECOGLO**

A widely used alternative manufacturing process uses liquid formulations that carry the photoluminescent particles.

Liquid formulations can suffer from settling out of the dense photoluminescent particles resulting in inconsistent luminance properties.
The Ecoglo Technical Advantage

ECOGLO

Durability of Photoluminescence
The Ecoglo range has been subjected to accelerated UV/weathering exposure, and proven to be highly resistant to the effects of UV/weathering.

Testing has been extended from the usual 1000 hour or 2000 hour test, out to 6000 hours, which can be interpreted to be similar to around 30 years of outdoor exposure.

At 6000 hours exposure, while there is noticeable loss of gloss of the top surface, the loss in PL brightness is less than can be detected by the human eye (measured reduction of 5-8%).

The unique ridges in the photoluminescent strips protect the glowing areas from most abrasive wear, and other incidental abuse.

Ecoglo uses its patented process for maximum durability. Using powder means the polymer we use is “long chain” which forms a strong UV resistant product when bonding.

Installed Durability
The manufacture of all Ecoglo products involves the integral bonding of the photoluminescent layer to a rigid aluminum substrate, so there is no chance of delamination or peeling. Rigid products spread any applied loads over a greater area of installation adhesive.

Ecoglo signage uniquely incorporates an integrally bonded anti-graffiti protective top coat over the print, which also protects the print from abrasive wear. Because this top layer bonds into the substrate, there is no chance of delamination or peeling.

Ecoglo bonds onto rigid aluminum and applies a protective top coat for greater installed durability.

Slip Resistance
The unique ridges in the Ecoglo photoluminescent strips and the integrated anti-slip contrast strips provide all-weather slip resistance.

Ecoglo combines ridges and anti-slip contrast strips for slip resistance.

The product range includes:
- Pathmarking guidance strips
- Handrail guidance strips
- Floor marker discs
- Hazard strips

NON-ECOGLO

PVC based products have reduced durability, may turn brown during weathering exposure after a short time.

Flexible base products, such as PVC, are more prone to coming loose because the installation adhesive is more highly stressed.

For outdoor use, protective film which is not integrally bonded is only as good as the quality of the adhesive.

Smooth surface PL products do not provide slip resistance.

- Signage (including tactile & Braille)
- Seat and aisle identification
- Step edge definition trim
- Step nosings
Luminance Requirements

A luminance level of 5 millicandelas per m² (mcd/m²) after 90 minutes of darkness is considered adequately visible for photoluminescent emergency lighting in the following international codes and standards. Ecoglo products EXCEED ALL these requirements.

New York City Reference Standard RS6-1 Photoluminescent exit path markings
This reference standard was promulgated in May 2005, and is referenced into the New York City building code by New York City Local Law 26 of 2004.

This law requires high-rise office buildings in New York City to have photoluminescent way-finding markings in all exit pathways. This is supplementary to existing emergency lighting requirements, and applies to all buildings, old and new.

RS6-1 defines the size and location of the markings and signage, as well as their performance requirements. Markings are required on all step edges, and as perimeter markings of the exit pathways, stairwell landings, and exit doors. Exit signs are also required. New buildings require handrail markings. Performance requirements include a minimum luminance at ninety minutes of 5mcd/m² after charging at 2f/c for 120 mins in fluorescent light. Conforms to tests for flammability, toxicity, radioactivity, washability, and (optionally) UV stability.

ICC International Building Code and International Fire Code
New code has been added to Chapter 10, Means of Egress, in the 2009 International Building Code and International Fire Code. The International Building Code is in use or adopted in 50 states, the District of Columbia, the US Virgin Islands, NYC, Guam, and the Northern Marianas Islands. The new code requires photoluminescent exit path markings in new non-residential buildings of 75ft height or more. Photoluminescent markings are required on all step edges and handrails, and as perimeter markings of the exit pathways, including stairwell landings. For performance requirements the code prescribes compliance with either
- UL1994, Luminous Egress Path Marking Systems, or
- ASTM E2072 Standard Specification for Photoluminescent Safety Markings (subject to modified charging source requirements)

UL 1994 Luminous Egress Path Marking Systems
UL 1994 is a standard that provides requirements for floor proximity and other egress path marking and lighting systems that provide a visual delineation of the path of egress. These systems are also used to identify significant egress path features such as doors, stair banisters, obstacles or information placards.

Such systems are intended for installation and use as required by building and fire safety codes such as the Life Safety Code, NFPA 101; the Building Construction and Safety Code, NFPA 5000, and the International Building Code sponsored by the International Code Council.

UL1994 requires each system element to be recognizable from a distance of 25 feet, and also requires all elements that may be applied to a floor or step to meet UL410 Slip Resistance of Floor Surface Materials, and to be tested for the effects of cleaning.

ASTM E2072, Standard Test Method for Photopic Luminance of Photoluminescent (Phosphorescent) Markings
This standard requires that photoluminescent markings be tested for photoluminescent brightness (luminance) following charging for 2 hours at 21.6 lux from a Fluorescent lamp having a color temperature between 4000K and 4500K. The required luminance properties are:
- After 10 minutes, minimum luminance 20mcd/m²
- After 60 minutes, minimum luminance 2.8mcd/m²

ULC S572 In Canada
ULC S572 is the standard stipulated in the National Building Code and has been adopted by all Provincial Building Codes. Photoluminescent Material used in signs and pathmarking in Canada must be certified as performing at this standard. Each element must be seen at the required distance after two hours.
### Fluorescent Charging of Ecoglo Pathmarking Material (20 lux, 4000K) in a Poorly Lit Area

<table>
<thead>
<tr>
<th>Activation Time</th>
<th>Hours of Visibility*</th>
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<tr>
<td>10 minutes</td>
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*Each pathmarking element is seen clearly from 25 feet

### Fluorescent Charging of Ecoglo Pathmarking Material (150 lux, 4000K) in a Reasonably Lit Area

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*Each pathmarking element is seen clearly from 25 feet

### Fluorescent Charging of Ecoglo Pathmarking Material (300 lux, 4000K) in a Well Lit Area

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<thead>
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<tr>
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<td>20 minutes</td>
<td>7 hours</td>
</tr>
<tr>
<td>30 minutes</td>
<td>8 hours</td>
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</tbody>
</table>

*Each pathmarking element is seen clearly from 25 feet
**CHARGING**
Photoluminescent material must receive some light in order to re-emit that light. In most situations 15 -30 minutes of light (depending on the light source) will be sufficient to charge photoluminescent material so that it will remain visible for four hours.

Immediately after the charging light has stopped, the luminance (brightness) can be very high (over 2000 mcd/m² if the charging light is bright). Luminance rapidly decreases over the next 10-20 minutes, however visibility is still adequate at 5mcd for emergency egress. It takes 11 hours for fully charged Ecoglo material to reduce to 5mcds. See *Brightness Decay Graph on page 9*.

If very low light levels exist Ecoglo will be able to advise of the duration of lighting required to charge the strips. See *Typical Charging Tables on page 6*.

**EYE ADAPTATION**
There are two main types of detector cells in the retina; cone and rod cells. For approximately the first 5-15 minutes under dark conditions the cone system of detector cells, which operate in bright light, continues to operate. However after this time the rod system of detector cells takes over as it is far more sensitive to light. The detective threshold of cone cells is 1mcd/m², whereas the detective threshold for rod cells is only 0.001mcd/m².

Visibility is affected by an individual’s ability to see in the dark. In particular older people see significantly less in the dark or in dim light than younger people. It takes approximately 20-30 minutes to fully adapt from bright sunlight to complete darkness. The speed of adaptation is faster than the rate at which the brightness of photoluminescent material reduces. This can lead to the photoluminescent material appearing to get brighter initially.

**PHOTOLUMINESCENCE**
The process of photoluminescence allows certain substances to emit a steady luminescent glow after they have absorbed various kinds of energy. Photoluminescence involves the absorption of energy - normally light. This causes the electrons of the atoms of the absorbing material to become excited and jump from the inner orbits of the atoms to the outer orbits. The electrons then fall back to their original state causing photons of light to be emitted.

Ecoglo uses Strontium Aluminate crystals embedded in a clear, durable polymer. These crystals continue to glow for many hours until exhausting the energy they have absorbed, but they can be recharged repeatedly by re-exposure to light. The luminescent ability will not noticeably deteriorate over time.

Ecoglo photoluminescent material is made from strontium aluminate crystals. When exposed to light energy (either natural or artificial) the crystals become excited and undergo a conversion process which enable them to re-emit the energy received as light in the form of a yellow/green glow. The light source can then be cut off and the excitation will continue for many hours. Photoluminescent material can be simply recharged by re-exposing to light. See *Brightness Decay Graph on page 9*.

**VISIBILITY**
Visibility of photoluminescent material is measured by millicandelas/m². From international code requirements (NYC and ICC) it is widely accepted that at 5mcds photoluminescent material is visible. It takes many hours for Ecoglo photoluminescent material to reduce to 5mcds.

Note that if photoluminescent step edging is used as the only light source for indoor theatre aisles Ecoglo will engineer a solution to provide sufficient visibility as the 5mcd emergency requirements are not relevant.
Ecoglo Brightness Decay Curve

Fully Charged Ecoglo Pathmarking Material

Luminance (cd/m²)

Time (Hours)

1000

100

10

1

5

Fully Charged Ecoglo Pathmarking Material
**Durability Standards and Tests**

**BENEFITS AND TECHNICAL DETAILS**
Ecoglo products meet or exceed the performance criteria specified in the following tests or standards:
- In Canada, ULC S572
- In United States, UL924

1. **HIGH VISIBILITY IN DARK OR LIGHT CONDITIONS**
   **Brightness:**
   - DIN 67510 Part 1, Phosphorescent Pigments and Products: Measurement and identification by the manufacturer.

2. **HIGH DURABILITY INDOORS AND OUTDOORS**
   **UV Stability:**

3. **REDUCES SLIPS**
   **Slip Resistance:**

4. **HARD WEARING**
   **Abrasion Resistance:**

5. **EASY CLEANING**
   **Washability:**

6. **NO RADIOACTIVITY OR TOXICITY**
   **Radioactivity:**

7. **DOES NOT BURN**
   **Flammability:**
   - ASTM D635-03, Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position.
   - FAA AC 23.2 Paragraph 4.b, Horizontal Burn Test.
CLEANING
Regular cleaning to remove built up dirt and objects on the strips will ensure Ecoglo will continue performing to expectation. Note that the photoluminescence will continue performing even after UV exposure or exposure to moisture. The only reason for degradation in the performance of the photoluminescence is a lack of correct cleaning.

1. Vacuuming or brushing with a stiff bristle head (wet or dry) is often enough to keep the strips clean. The glowing strip can also be wiped clean with a wet or dry sponge or cloth. Observation will determine if cleaning is required, however a regular cleaning every 4 to 6 weeks or after particularly heavy use should ensure correct performance.

2. High-pressure water (but not steam cleaning) can also be used to clean the strips.

3. Do not use highly alkaline or acidic cleaning agents. The pH of the cleaning agents should be between pH 5 and pH 12. If cleaning agents are applied at more than pH 10, the strips should be rinsed with pH neutral (pH 6 to pH 8) solution afterwards.

MAINTENANCE
Ecoglo products should be checked annually to ensure the following:
- All products are still in place as at installation and there is no material damage to any of these products
- All products are clean from general dust build up and any other specific obscuring deposits such as gum or tar
- All products are clearly visible and have not been covered by carpet or other materials
- All products mark a clear path and have not been obstructed by physical hazards such as trolleys, machinery etc.
- All products can be used to provide clear escape path marking and there has been no change to the configuration of the building which renders them unusable
- All light required to charge Ecoglo products is operating as designed at installation
System Design - Where to Install Ecoglo in Arenas

- Directional Markers
- Step Edging
- Handrail Strips
- Aisle Markers
System Design - Where to Install Ecoglo in Theaters
System Design - Where to Install Ecoglo in Fire Exit Stairways

Demarcation Strip
Step Edging
Handrail Strips
Exit Sign (Above door)
## ECOGLO

### Effectiveness
- The energy stored in Ecoglo photoluminescent pigments will continuously exhaust for over 100 hours until it needs to be recharged by re-exposing it to a light source
- PL way-finding systems create an image of the pathway by outlining elements such as steps, landings, doors, etc. and critical information such as change in floor level or direction
- PL way-finding systems can play a vital role in showing the safe exit path, even in heavy smoke
- The standard when designing PL way-finding systems for smoky conditions is low-level continuous marking less than 1 meter above the floor level
- Even if in a dark room for a week, can recharge for a 2-hour evacuation in as little as 10 minutes

### Installation
- Installation can be completed by any competent handyman

### Maintenance
- Occasional dusting

### Life Span
- 35-year life span

### Environmental Impact
- Ecoglo is not radioactive or toxic and uses no energy. In 35 years, the aluminum can be recycled

## TRADITIONAL EMERGENCY LIGHTING BACKUP SYSTEMS

### Effectiveness
- Experience problems with partial or total failure
- Limited operating time
- Cast insufficient light
- High mounted emergency lights can easily be totally extinguished when there is smoke in the air
- Location of high light casts shadows
- Every model requires a battery or generator system that could provide electricity to the lights during a blackout
- If completely drained an emergency backup battery can take up to 7 days to recharge

### Installation
- Requires costly installation by electricians

### Maintenance
- Annual inspection and regular replacement of bulbs, batteries, or generators

### Life Span
- 2 to 7-year life span

### Environmental Impact
- Emergency lights are not recyclable and over 35 years, up to 7 systems will need to be installed

### Comparative Advantage

**Ecoglo vs. Traditional Emergency Lighting Backup Systems**

**Ecoglo cuts through shadows and enables faster egress**

**Traditional emergency lighting casts shadows on steps and slows evacuation**

**Ecoglo always turns on if back-up lighting fails**

Electrical light casts shadows on steps and slows evacuation

Ecoglo cuts through shadows and enables faster egress

Ecoglo always turns on if back-up lighting fails
Step Edge Contrast Strips, Non-Slip Strips, Guidance Strips, and Handrail Strips

**E SERIES CONTRAST STRIPS**

- E2071
- E2061
- E2051

**N SERIES NON-SLIP STRIPS**

- N3070
- N3060
- N3050

**G SERIES GUIDANCE STRIPS**

- G3001
- G4001
- G6001

**H SERIES HANDRAIL STRIPS**

- H5001
- H3001

**H SERIES HANDRAIL END CAPS**

- HEC51
- HEC31

**GEC FLAT END CAPS**

- GEC31
- GEC41
- GEC61
F SERIES FLAT STAIR NOSINGS
Clear anodized aluminum standard (Type II, Class I), black, bronze, and custom color anodizing available as a special order.

- Black Non-Slip - F4171
- Yellow Non-Slip - F4151
- Grey Non-Slip - F4161

- Black Non-Slip - F4170
- Yellow Non-Slip - F4150
- Grey Non-Slip - F4160
Flat Aluminum Stair Nosings

F SERIES FLAT STAIR NOSINGS

Clear anodized aluminum standard (Type II, Class I), black, bronze, and custom color anodizing available as a special order.
**F SERIES FLAT STAIR NOSINGS**

Clear anodized aluminum standard (Type II, Class I), black, bronze, and custom color anodizing available as a special order.

![Diagram of F Series Flat Stair Nosings](image1)

Black Non-Slip - F7170  
Yellow Non-Slip - F7150  
Grey Non-Slip - F7160

![Diagram of F Series Flat Stair Nosings](image2)

2.6" (65.4mm)  
2" (51mm)  
1.2" (30mm)  
0.5" (14mm)

Black Non-Slip - F8171  
Yellow Non-Slip - F8151  
Grey Non-Slip - F8161

![Diagram of F Series Flat Stair Nosings](image3)

2" (51mm)  
1 1/2" (25mm)  
2.3" (58mm)  
3" (75mm)

Black Non-Slip - FA8171  
Yellow Non-Slip - FA8151  
Grey Non-Slip - FA8161

**RF SERIES FLAT STAIR NOSINGS**

Clear anodized aluminum standard (Type II, Class I), black, bronze, and custom color anodizing available as a special order.

![Diagram of RF Series Flat Stair Nosings](image4)

Black Non-Slip - RF5171  
Yellow Non-Slip - RF5151  
Grey Non-Slip - RF5161

![Diagram of RF Series Flat Stair Nosings](image5)

2" (50.8mm)  
5.5" (139.7mm)

Black Non-Slip - RF7171  
Yellow Non-Slip - RF7151  
Grey Non-Slip - RF7161
RF SERIES FLAT STAIR NOSINGS
Clear anodized aluminum standard (Type II, Class I), black, bronze, and custom color anodizing available as a special order.

C SERIES CARPET STAIR NOSINGS
Clear anodized aluminum standard (Type II, Class I), black, bronze, and custom color anodizing available as a special order.
**C SERIES CARPET STAIR NOSINGS**
Clear anodized aluminum standard (Type II, Class I), black, bronze, and custom color anodizing available as a special order.

**RC SERIES CARPET STAIR NOSINGS**
Clear anodized aluminum standard (Type II, Class I), black, bronze, and custom color anodizing available as a special order.
RC SERIES CARPET STAIR NOSINGS
Clear anodized aluminum standard (Type II, Class I), black, bronze, and custom color anodizing available as a special order.

RF SERIES RENOVATION STAIR TREAD
Clear anodized aluminum standard (Type II, Class I), black, bronze, and custom color anodizing available as a special order.
S1 SERIES CAST-IN-PLACE INSERTS

- Black Non-Slip - S1171
- Yellow Non-Slip - S1151
- Grey Non-Slip - S1161

- Black Non-Slip - SA1171
- Yellow Non-Slip - SA1151
- Grey Non-Slip - SA1161

- Black Non-Slip - S1170
- Yellow Non-Slip - S1150
- Grey Non-Slip - S1160

S2 SERIES CAST-IN-PLACE INSERTS

- Black Non-Slip - S2171
- Yellow Non-Slip - S2151
- Grey Non-Slip - S2161

- Black Non-Slip - SA2171
- Yellow Non-Slip - SA2151
- Grey Non-Slip - SA2161

- Black Non-Slip - S2170
- Yellow Non-Slip - S2150
- Grey Non-Slip - S2160
### EGRESS SIGNAGE

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<td>Exit Sign</td>
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<tr>
<td>EE2010</td>
<td>7.9” x 3.9” (200mm x 100mm)</td>
<td>Emergency Exit Sign</td>
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<td>AR1010H &amp; AR1010D</td>
<td>3.9” x 3.9” (100mm x 100mm)</td>
<td>Arrow</td>
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<td>RM1010</td>
<td>3.9” x 3.9” (100mm x 100mm)</td>
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<td>FA1010</td>
<td>3.9” x 3.9” (100mm x 100mm)</td>
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<td>3.9” x 3.9” (100mm x 100mm)</td>
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<td>FH1010</td>
<td>3.9” x 3.9” (100mm x 100mm)</td>
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### AISLE MARKERS

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<td>1.8” x 1.3” (45mm x 32.5mm)</td>
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<td>DS60</td>
<td>2.4” (60mm Round)</td>
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<td>2.7” (68mm Round)</td>
<td>68mm Round Aisle Marker (holder available separately)</td>
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### SEAT NUMBERS

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# Pathmarking Signs

## Pathmarking Signs

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<td>🏃‍♂️ ←</td>
<td>RB02012</td>
<td>8&quot; x 4.6&quot;</td>
<td>Exit to the Left</td>
</tr>
<tr>
<td>🏃‍♂️ ↑</td>
<td>RC02012</td>
<td>8&quot; x 4.6&quot;</td>
<td>Exit Down and to the Right</td>
</tr>
<tr>
<td>🏃‍♂️ ↓</td>
<td>RD02012</td>
<td>8&quot; x 4.6&quot;</td>
<td>Exit Down and to the Left</td>
</tr>
<tr>
<td>🏃‍♂️ ↗</td>
<td>RE02012</td>
<td>8&quot; x 4.6&quot;</td>
<td>Exit Up and to the Right</td>
</tr>
<tr>
<td>🏃‍♂️ ↘</td>
<td>RF02012</td>
<td>8&quot; x 4.6&quot;</td>
<td>Exit Up and to the Left</td>
</tr>
<tr>
<td>🏃‍♂️ ↖</td>
<td>RG02012</td>
<td>8&quot; x 4.6&quot;</td>
<td>Exit Straight Ahead and Up</td>
</tr>
<tr>
<td>🏃‍♂️ ↓</td>
<td>RH02012</td>
<td>8&quot; x 4.6&quot;</td>
<td>Exit Straight Ahead and Down</td>
</tr>
</tbody>
</table>

## Door Mounted Pathmarking Door Signs

<table>
<thead>
<tr>
<th>Product</th>
<th>Product Code</th>
<th>Dimensions</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🏃‍♂️ EXIT</td>
<td>R0E3312</td>
<td>13&quot; x 4.6&quot;</td>
<td>Running Man with Exit</td>
</tr>
</tbody>
</table>

## Wall Mounted Pathmarking Door Signs and Intermediate Pathmarking Signs

<table>
<thead>
<tr>
<th>Product</th>
<th>Product Code</th>
<th>Dimensions</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🏃‍♂️ EXIT</td>
<td>RAE2122</td>
<td>8.4&quot; x 8.89&quot;</td>
<td>Exit to the Right</td>
</tr>
<tr>
<td>🏃‍♂️ EXIT</td>
<td>RBE2122</td>
<td>8.4&quot; x 8.89&quot;</td>
<td>Exit to the Left</td>
</tr>
<tr>
<td>🏃‍♂️ FINAL EXIT</td>
<td>RAF2128</td>
<td>8.4&quot; x 11.1&quot;</td>
<td>Final Exit to the Right</td>
</tr>
<tr>
<td>🏃‍♂️ FINAL EXIT</td>
<td>RBF2128</td>
<td>8.4&quot; x 11.1&quot;</td>
<td>Final Exit to the Left</td>
</tr>
<tr>
<td>🏃‍♂️ ←</td>
<td>RBY4219</td>
<td>16.4&quot; x 7.4&quot;</td>
<td>Exit to the “Custom Wording”</td>
</tr>
</tbody>
</table>

## Door Marking Products

<table>
<thead>
<tr>
<th>Product</th>
<th>Product Code</th>
<th>Dimensions</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🏃‍♂️ NOT AN EXIT</td>
<td>00N1854</td>
<td>7&quot; x 2.1&quot;</td>
<td>Not an Exit Text Only</td>
</tr>
<tr>
<td>🏃‍♂️</td>
<td>DHM1010</td>
<td>4&quot; x 4&quot;</td>
<td>Door Handle Indicator</td>
</tr>
<tr>
<td>🏃‍♂️</td>
<td>DHM03YY</td>
<td>1&quot; x Custom Cut</td>
<td>Panic Bar Indicator</td>
</tr>
<tr>
<td>🏃‍♂️</td>
<td>OB20025</td>
<td>1&quot; x Cut to Length</td>
<td>Obstruction Strip</td>
</tr>
<tr>
<td>🏃‍♂️</td>
<td>OB20025-TP</td>
<td>1&quot; x 60’ Roll</td>
<td>Obstruction Tape</td>
</tr>
</tbody>
</table>
FLOOR IDENTIFICATION SIGNS

Luminous floor identification signs are an important part of egress safety due to the critical information that they provide. Ecoglo Floor Identification Signs meet International Code Council (ICC) and National Fire Protection Agency (NFPA) regulations.

- IBC and IFC 2009 – Section 1022.8 Floor Identification Signs
- IBC and IFC 2012 – Section 1022.9 Floor Identification Signs
- NFPA 2009/2012 – Section 7.2.2.5.4 Stairway Identification

ECOGLO FLOOR IDENTIFICATION SIGN FEATURES

- Minimum size 18” by 12”
- Tactile raised letters (ICC A117.1 compliant)
- Braille beads
- 10-year warranty
- Simple “peel and stick” installation with reliable 3M double-sided tape pre-applied to signs
- Safe to use: non-toxic and non-radioactive
- Custom made for each location
- Listed UL 1994; or ASTM E 2072, except that the charging source shall be 1 footcandle (11 lux) of fluorescent illumination for 60 minutes, and the minimum luminance shall be 30 millimicandelas per square meter at 10 minutes and 5 millimicandelas per square meter after 90 minutes

IBC Section 1022
A sign shall be provided at each floor landing in exit enclosures connecting more than three stories designating the floor level, the terminus of the top and bottom of the exit enclosure and the identification of the stair or ramp. The signage shall also state the story of, and the direction to, the exit discharge and the availability of roof access from the enclosure for the fire department. The sign shall be located 5 feet above the floor landing in a position that is readily visible when the doors are in the open and closed position. Floor level identification signs in tactile characters complying with ICC A117.1 shall be located at each floor level landing adjacent to the door leading from the enclosure into the corridor to identify the floor level.
Photoluminescent Exit Sign System

UL924 EXIT SIGN SYSTEM

- LEED point qualified for energy conservation and sustainability
- Visible for 50 feet
- No electricity or batteries required
- Indoor installation
- Lifetime warranty
- Requires exposure to at least 54 lux (5 foot-candles) of fluorescent, metal halide, mercury vapor light illumination for a minimum of 60 minutes to become fully operational
- Directional arrow labels provided with each sign for on-site application
- Product uses recycled aluminum and is recyclable
- Non-toxic and non-radioactive
- ETL listed for emergency lighting and power equipment according to UL STD 924 and the Canadian Standard for Photoluminescent and Self-Luminous Exit Signs

RETROFIT CANOPY ADAPTOR

Ecoglo’s accessory cover plate gives you all the benefits of low cost installation and maintenance without the frustrations that other systems have. No special tools are required.

Simply attach a universal mounting bracket to an existing octagon box, fasten the Ecoglo canopy to the mounting bracket as shown in the diagram. Slide the sign into the canopy instead of screwing it directly into a ceiling or wall.

When replacing or removing an electrically-powered exit, the power must be terminated at the source, not in the wall cavity before installing the Ecoglo Exit Sign. Check with the local electrical code requirements first before installation.

SLOPED CEILING ADAPTOR

The hinged mounting adaptor accommodates slopes from 0 to approximately 49 degrees and is installed similar to the standard ceiling configuration.

Part Numbers, Dimensions, and Descriptions

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Dimensions</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>EX353183-50G</td>
<td>13.9” x 7.2” (353mm x 183mm)</td>
<td>Single Photoluminescent Exit Sign - Green Letters</td>
</tr>
<tr>
<td>EX353183-50R</td>
<td>13.9” x 7.2” (353mm x 183mm)</td>
<td>Single Photoluminescent Exit Sign - Red Letters</td>
</tr>
<tr>
<td>EX371201-50G-CA</td>
<td>14.6” x 7.9” (371mm x 201mm)</td>
<td>One-Sided Exit Sign EX353183-50G with Clear Anodized Aluminum Frame and Universal Mounting Hardware - Green Letters</td>
</tr>
<tr>
<td>EX371201-50R-CA</td>
<td>14.6” x 7.9” (371mm x 201mm)</td>
<td>Two-Sided Exit Sign EX353183-50R with Clear Anodized Aluminum Frame and Universal Mounting Hardware - Red Letters</td>
</tr>
<tr>
<td>EX405229-75G</td>
<td>18.9” x 9.8” (481mm x 249mm)</td>
<td>Single Photoluminescent Exit Sign - Green Letters</td>
</tr>
<tr>
<td>EX405229-75R</td>
<td>18.9” x 9.8” (481mm x 249mm)</td>
<td>Single Photoluminescent Exit Sign - Red Letters</td>
</tr>
<tr>
<td>EX424246-75G-CA</td>
<td>19.6” x 10.5” (499mm x 267mm)</td>
<td>One-Sided Exit Sign EX405229-75G with Clear Anodized Aluminum Frame and Universal Mounting Hardware - Green Letters</td>
</tr>
<tr>
<td>EX424246-75R-CA</td>
<td>19.6” x 10.5” (499mm x 267mm)</td>
<td>Two-Sided Exit Sign EX405229-75R with Clear Anodized Aluminum Frame and Universal Mounting Hardware - Red Letters</td>
</tr>
</tbody>
</table>
ULC S572 STANDARD SERIES PHOTOLUMINESCENT EXIT SIGN SYSTEM

- LEED points qualified for energy conservation and sustainability ULC S572 listed for Photoluminescent and Self-Luminous Exit Signs
- 50/75 foot visibility rating
- No electricity or batteries required
- Indoor installation
- Standard twenty-five year warranty

- Requires exposure to at least 54 lux (5 foot-candles) of fluorescent, metal halide, mercury vapor, or other 4000K light illumination for a minimum of 60 minutes to become fully operational
- Non-toxic and non-radioactive
- ULC testing/listing no. E344049/4RG2

Model Selection
RM-(Direction)(Rating)(Frame)

Example 1: RM-RD50
One-sided, right-facing running man with down arrow, 50-foot, no frame

Example 2: RM-SA75-CA
Two-sided, single direction with arrows, 75-foot, clear anodized aluminum frame and mounting kit

Sides and Direction

RD
Right-facing running man with down arrow
(one-sided)

LA
Left-facing running man
with arrow
(one-sided)

RA
Right-facing running man
with arrow
(one-sided)

SA
Single direction with arrows
(two-sided)

Visibility (Feet) Size Framed and Unframed

50 Feet
Framed
16.2" x 9.5"
(411mm x 241 mm)

50 Feet
Unframed
15.5" x 8.8"
(393mm x 223mm)

75 Feet
Framed
19.6" x 11.6"
(498mm x 296 mm)

75 Feet
Unframed
18.9" x 10.9"
(480mm x 278mm)

Frame and Mounting Kit

(Blank)
No frame

-CA
Clear anodized aluminum frame and mounting kit

*ISO Standard requires an arrow with the Running Man symbol at all times. Arrow points to direction of egress. Signs over doors have arrow pointing down.
ULC S572 ARCHITECTURAL SERIES PHOTOLUMINESCENT EXIT SIGN SYSTEM

- LEED points qualified for energy conservation and sustainability ULC S572 listed for Photoluminescent and Self-Luminous Exit Signs
- 50/75 foot visibility rating
- No electricity or batteries required
- Indoor installation
- Standard twenty-five year warranty

- Requires exposure to at least 54 lux (5 foot-candles) of fluorescent, metal halide, mercury vapor, or other 4000K light illumination for a minimum of 60 minutes to become fully operational
- Non-toxic and non-radioactive
- ULC testing/listing no. E344049/4RG2

Model Selection

RMA-(Direction)(Rating)(Mount)

Example 1: RMA-SA50C
Two-sided, single direction with arrows, 50-foot, ceiling mount kit

Example 2: RMA-LA75W
One-sided, left-facing running man with arrow, 75-foot, wall bracket mounting kit

Visibility (Feet) Size

<table>
<thead>
<tr>
<th>Feet</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>15&quot; x 7.6&quot;</td>
</tr>
<tr>
<td>75</td>
<td>18.9&quot; x 10.9&quot;</td>
</tr>
</tbody>
</table>

Mounting Style

<table>
<thead>
<tr>
<th>Style</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>Flat</td>
</tr>
<tr>
<td>S</td>
<td>Spacer</td>
</tr>
<tr>
<td>W</td>
<td>Wall Bracket</td>
</tr>
<tr>
<td>C</td>
<td>Ceiling One-Sided</td>
</tr>
<tr>
<td>D</td>
<td>Flag One-Sided</td>
</tr>
<tr>
<td>G</td>
<td>Ceiling Two-Sided</td>
</tr>
<tr>
<td>H</td>
<td>Flag Two-Sided</td>
</tr>
</tbody>
</table>

Sides and Direction

<table>
<thead>
<tr>
<th>RD</th>
<th>Right-facing running man with down arrow (one-sided)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA</td>
<td>Left-facing running man with arrow (one-sided)</td>
</tr>
<tr>
<td>BA</td>
<td>Running man with bi-directional arrows (one-sided)</td>
</tr>
<tr>
<td>SA</td>
<td>Single direction with arrows (two-sided)</td>
</tr>
<tr>
<td>DA</td>
<td>Bi-directional with arrows (two-sided)</td>
</tr>
</tbody>
</table>

ECOGLO ARCHITECTURAL SIGNS BEING INSTALLED IN THE UNION STATION REVITALIZATION PROJECT IN TORONTO

*ISO Standard requires an arrow with the Running Man symbol at all times. Arrow points to direction of egress. Signs over doors have arrow pointing down.
Installed Projects

Hong Kong Convention Centre
Melbourne Cricket Ground
Time Warner Centre NYC, New York
Burj Dubai UAE

Eaton Centre Toronto, ON
Markham Theatre Markham, ON
Bloor St Properties Toronto, ON
Hart House University of Toronto Toronto, ON

University of Delaware Newark, DE
Fox Theater Oakland, CA
John Paul Jones Arena University of Virginia Charlottesville, VA
Verizon Center Washington DC
### ECOGLO STRENGTHS

<table>
<thead>
<tr>
<th>High quality anti-slip material</th>
<th>Reduces slips and falls</th>
</tr>
</thead>
<tbody>
<tr>
<td>High quality photoluminescence</td>
<td>Visible for hours in dark conditions</td>
</tr>
<tr>
<td>Baked in process</td>
<td>Hardwearing, no repainting</td>
</tr>
<tr>
<td>Step edge contrast</td>
<td>Reduces falls in light or dark conditions</td>
</tr>
<tr>
<td>Recycles natural or artificial light</td>
<td>Decrease electricity usage, increased sustainability</td>
</tr>
<tr>
<td>UV resistance</td>
<td>Can be installed inside or out</td>
</tr>
<tr>
<td>Internationally accredited testing</td>
<td>Specify with confidence</td>
</tr>
<tr>
<td>Green attributes</td>
<td>Non-toxic, non-radioactive, made with recycled aluminum and long life</td>
</tr>
</tbody>
</table>

### DELIVER REAL BENEFITS

- 2009 IFC Means of Egress, January 2009
- 2009 IBC Means of Egress, January 2009
- NFPA 101 and 5000, January 2009
- California, Chapter 10, January 2008
- Connecticut, Section 1026, January 2008
- New York City Code, July 2008
- GSA for All Buildings, January 2009
- British & ISO Standards for PL Brightness
- Tokyo Fire Department
- Fire & Disaster Management Agency (Japan)
- Building Code of Australia
- New Zealand Building Code
- ULC 572

241 Main Street, Suite 100
Buffalo, New York
14203
Tel: 888-679-4022
Fax: 877-679-4022
Email: info@ecoglo.com

1400-6 Cornwall Road
Oakville, Ontario
L6J 7W5
Tel: 888-679-4022
Fax: 877-679-4022
Email: info@ecoglo.ca

[www.us.ecoglo.com](http://www.us.ecoglo.com) • [www.ecoglo.ca](http://www.ecoglo.ca)