

Photoluminescent UL924-listed **EXIT Signs** • UL1994-listed Luminous **Egress Path Markings** • Wall & Floor Tapes • Metal Stair Nosing • Floor Identification Signs

Photoluminescent Printable Substrates: Flexible Films • Rigid Sheets • Aluminum • Polycarbonate • Masterbatch • Corner & Wall Guards •... and many more SAFETY items

**AMERICAN PERMALIGHT<sup>®</sup> INC.**

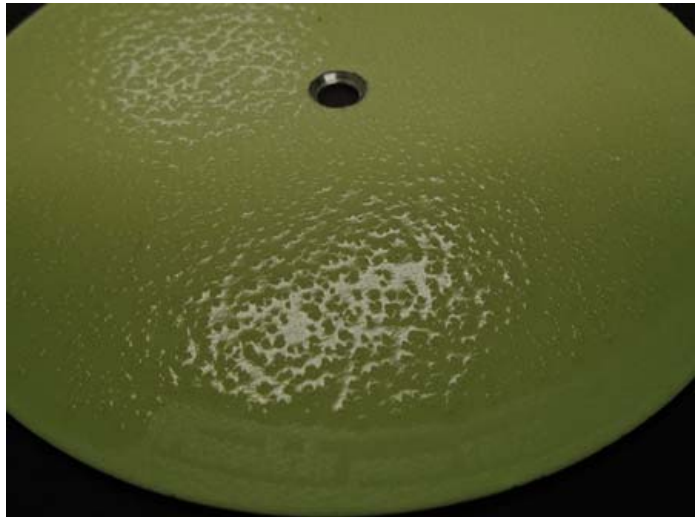
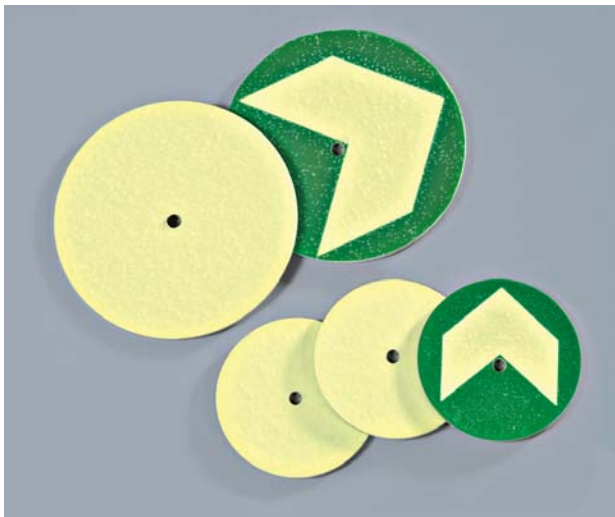
2531 W 237<sup>th</sup> Street #113 • Torrance, CA 90505-5245 • Tel 310-891-0924 • Fax 310-891-0996 • www.americanpermalight.com

## Floor Markings for High Traffic Areas: Photoluminescent Aluminum Discs

**Use 1:** for Gratings and Catwalks

**Use 2:** flat on warehouse floors

Description	Ø	Material	Item No.
no arrow	2-3/8"	Aluminum	83-40227
with arrow	2-3/8"	Aluminum	83-40237
no arrow	4"	Aluminum	83-40247
with arrow	4"	Aluminum	83-40257



PERMALIGHT<sup>®</sup> photoluminescent Aluminum Discs consist of  
a  **durable, firm, stiff Aluminum base**: ~ 1/16-inch / ~ 0.06 inch / ~ 1.5 mm thick metal  
a  **yellowish photoluminescent surface** in *power 150/22* luminance \*\*  
both sizes optionally available with  **green surface** for glowing chevron  
with  **gritty anti-slid surface** to help prevent slips  
center hole with  **3/16-inch hole diameter**  
hole allows  **counter-sinking** the screw head  
a white non-glow backing.

### Photoluminescent Properties

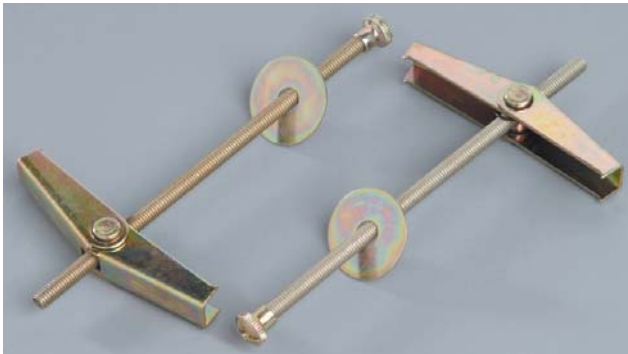
\*\* Per Standard DIN 67510, disc surface was activated by 1000 lux of Xenon lighting for 5 minutes. After removal of activating light source, disc surface emitted 150 milli-candela per square meter after 10 minutes in the dark and 22 mcd/m<sup>2</sup> after 60 minutes in the dark. The photoluminescent effect continues to decline over the hours to come.

**continued on Pages 2 + 3**

# Installation Instructions: Photoluminescent Aluminum Discs on Grating /Catwalks

04-2015

Description	Ø	Material	Item No.
no arrow	2-3/8"	Aluminum	83-40227
with arrow	2-3/8"	Aluminum	83-40237
no arrow	4"	Aluminum	83-40247
with arrow	4"	Aluminum	83-40257



A toggle bolt consists of a bolt/ screw with spring-leaded wings at the other end that when tightened to the grating or catwalk act as an anchor. At your local hardware store, choose the right size screw length to go with the right size wings depending on the depth/type of grating you plan to insert into. Make sure that the toggle bolt is at least an inch longer than the grating you are penetrating it through. This is because you have to leave enough room for the spring-leaded wings to go through the grating and be able to clear the grating below. If it is too short of a bolt, the spring-leaded wings will never be released because they will not actually be able to penetrate the grating completely.

Unscrew the wings. Insert the screw portion of the toggle bolt through the photoluminescent disc hole. Apply a wavy bead of construction adhesive (e.g., Loctite 375 Heavy Duty or Liquid Nails) to the white underside of the disc. Re-apply the wings to the bottom of the bolt. Insert the spring-leaded wings of the toggle bolt through the grating or catwalk. Once below, the wings open. Now tighten the screw from above.



Point the photoluminescent chevron in the direction of evacuation. Once the construction adhesive has dried around the grating below the disc head, the disc will stay permanently on the grating and not accidentally rotate by foot-traffic.

**continued on Page 3**

04-2015

## Installation Instructions: Photoluminescent Aluminum Discs [on flat floor surfaces](#)

04-2015

Description	Ø	Material	Item No.
no arrow	2-3/8"	Aluminum	83-40227
with arrow	2-3/8"	Aluminum	83-40237
no arrow	4"	Aluminum	83-40247
with arrow	4"	Aluminum	83-40257

1. If you have a high-gloss or very smooth floor surface, lightly sand the installation spot to provide a grip-hold for the adhesive.
2. Prepare the area of the floor by WET CLEANING and removing any grease, grime, dust + dirt. It is NOT enough to only brush-clean the installation area, as that leaves fine dust particles in the floor surface.
3. Apply a wavy bead of construction adhesive (e.g., Loctite 375 Heavy Duty or Liquid Nails, typical brands you find at your local hardware store) to the white underside of the disc.



4. Firmly press-apply the adhesive-supported aluminum disc onto the clean, dust-free, dry floor spot, rotating the disc a bit, so the adhesive can get a good bond to the floor surface. A generous bed of adhesive gives the disc its hold. Some adhesive may ooze out from beyond the disc underside and through the center hole.
5. Carefully clean away any oozing-out extra adhesive. Make sure to remove all opaque adhesive remnants from the yellow photoluminescent / green disc surface.
6. Should you use discs with an arrow (chevron), make sure the chevron points in the proper direction.
7. Allow at least 24 hours for a full cure before disturbing the discs. Read the adhesive instructions for specific curing/ drying time of the particular brand you purchased.

