

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 • Masterbatch • Corner & Wall Guards •... and many more SAFETY items



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Installation of PERMALIGHT® Aluminum Stair Nosing for freshly Poured Concrete + Steel-Pan Steps Item-No.: 83-40457L

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Use:

PERMALIGHT® photoluminescent aluminum stair nosing is designed for Luminous Egress Path Markings in newly constructed emergency staircases, helping to guide occupants out of darkness to safety. Correct installation of the stair nosing is critical to accomplish compliance with the relevant codes as well as for safe performance on the steps and the later-on use by building occupants.

Please find below our general guidelines. Follow locally accepted installation procedures and practices, as well as local code requirements, such as IBC/ IFC, NFPA, GSA, OSHA and ADA to ensure a safe Luminous Egress Path Marking system installation.

Arrival of Goods:

Inspect this shipment *immediately while the driver is still present*. Insist that any visible damages get written down on your freight bill. *Be specific* in writing down the damages. Take photos if possible. If damages occurred in transit, keep BOTH the packaging material and package contents in the exact condition as delivered at the location delivered to for inspection by the carrier. Open this shipment as soon as possible. Make sure all items ordered are accounted for. Any shortage of items shipped or manufacturing errors must be reported to us within one workday of receipt of shipment.

Installation Instructions

Make sure all installers read through the installation instructions and are familiar with both the code requirements as well as how to install this aluminum nosing into freshly poured concrete.

Installation Guidelines for freshly poured concrete or steel pan concrete-filled stairs:

PERMALIGHT® Aluminum Stair Nosing 83-40457L is designed to be fully surface-embedded into the concrete or cement substrate. This will provide total step surface support for the aluminum stair nosing.

Pour the cement or concrete. Place the aluminum stair nosing into position in the concrete. Tamp the aluminum stair nosing to ensure proper concrete formation around the anchor on the underside. Any voids left between the underside of the aluminum stair nosing and the concrete or cement substrate will allow flexing of the aluminum stair nosing itself. It is essential that the installer tamps down the aluminum stair nosing to totally seat it into the concrete or cement substrate and fully rest upon any riser return such as in pan-filled steps.

This will prevent the occurrence of voids and hollows which can lead to flexing and cantilevering of the aluminum stair nosing.

!! Aluminum stair nosing placement may be difficult in concrete with a very low slump (mass) !!

Be certain the concrete mix is of the proper consistency, not too dry, not too wet.

Using very large aggregate in the concrete mix may make the installation of the aluminum stair nosing difficult.

Allow the concrete to set. Do not walk on the aluminum stair nosing for 24 hours. Do not put excessive weight on the aluminum stair nosing for five 24-hour days.

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The original installation is done with the aluminum stair nosing having its 1-5/8 inch wide channel bare. Once the trades are finished with their “dirty” staircase work (such as Div. 09 fire-proofing and painting) and the Div. 10 signage installers start their signage installation work in a cleaner environment, prepare the aluminum stair nosing for the photoluminescent/black aluminum insert:

First brush-clean off any debris, dirt and dust. Next wet-clean using water. Finally, use micro-fiber cloth moistened with isopropyl alcohol to wipe over the 1-5/8 inch wide bare channel to remove any surface residue that may have accumulated during the construction process.

When the aluminum stair nosing and particularly its 1-5/8 inch bare channel are clean, dust-free and dry, take the photoluminescent/black aluminum insert strip. Remove the adhesive-protecting liner from its back. Do NOT touch the adhesive but instead hold the aluminum strip along its sides. Align the strip end with the aluminum stair nosing end and peel-apply the aluminum insert strip into the channel over the entire length of the aluminum stair nosing. Using a Pressure Roller, firmly press onto the inserted photoluminescent/black aluminum strip along its entire length, so the strip gets full surface contact with the aluminum stair nosing channel surface.

On-going Maintenance:

Property managers, landlords, building owners and maintenance teams shall keep the stair treads and the aluminum stair nosing free of any debris and dirt by sweeping or vacuuming regularly. As these aluminum stair nosings are installed inside emergency staircases, heavy-duty commercial cleaners are typically not necessary. Should you ever experience any damage to the nosing, take a photo of the concern and contact us for our feedback: info@americanpermalight.com

Photoluminescent Features:

Make sure the photoluminescent aluminum stair nosing gets properly activated by ambient lighting, as required by your applicable building code.

Appropriate Product Use

Many factors beyond American Permalight[®]'s control and uniquely within a user's knowledge and control can affect the use, application and performance of a Permalight[®] product in a particular application. Given the variety of factors that can affect the use and performance of a Permalight[®] product, each user is solely responsible for evaluating the product and determining whether it is suitable for a user's method of application and fit for a particular purpose. Questions? Contact us.