



**G. S. I. Inc.**

*Manufacturer & Distributor of Aerospace Lighting*

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[HOME](#)

[PRODUCTS](#)

[WHAT'S NEW](#)

[WHO WE ARE](#)

[BUSINESS PARTNERS](#)

## PHOTOLUMINESCENCE FOR AIRCRAFT

### Applications:

Reports on fires and fog, in all varieties of environments, show that the intended escape route to follow has to be absolutely visible. Fire and fog become catastrophes. Accidents happen and people are injured or even killed because of the failure of conventional lighting systems.

The Permalight® Photoluminescent System is a reliable safe rescue path indicating system that works when needed the most.

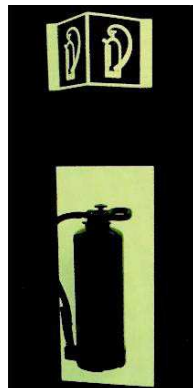


### Description:

Photo luminescent pigments were first developed in 1976.

These original pigments were fully annealed zinc sulfide crystals.

In 1990, Permalight® introduced the first strontium aluminate pigment. These pigments were much brighter than the zinc pigments and were the first UV resistant products on the market. They are also the brightest and have the longest decline time. The pigments store light energy (daylight or artificial light). Then the energy is emitted as a bright, glowing, visible light in darkness or through dense smoke and fog. They do not have any radioactive additives and are non-toxic.



☐ Maintenance is not necessary, except for "normal" cleaning.

☐ Permalight® Photoluminescence has high customer satisfaction and is used in over 67 countries, over 1,000 ships, hundreds of railroads, many aircraft, and other vehicles.

Permalight® Photoluminescent products can be made into foils, tapes, plates, paint systems (acrylic, polyurethane, epoxy), silicone, casting resin, films, vinyls, moldings, ceramics, and fabrics.

## Features:

☐ **Life:** Long lasting, up to 100 hours decline time for the high performance products (½ life of products is 8 + years). As long as the products are not considerably mechanically damaged, their life is nearly unlimited. They can be recharged again and again.

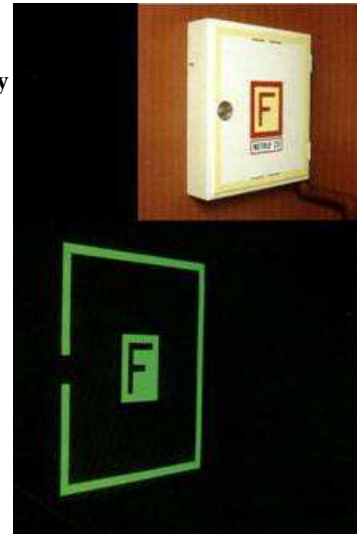
☐ **Reliable:** They work even in case of power failure.

☐ **Brightness:** Clearly visible even through dense smoke or fog - the highest luminance available.

☐ **Complete:** Continuous marking leading to the next emergency exit or function.

☐ **Describing:** What happens on the way to the exit or function (stairs, obstacles, emergency exits).

☐ **Understandable:** Easy to understand in every language.



## Additional Features:

☐ No Electro Magnetic Interference (EMI) or Radiated Frequency Interference (RFI).

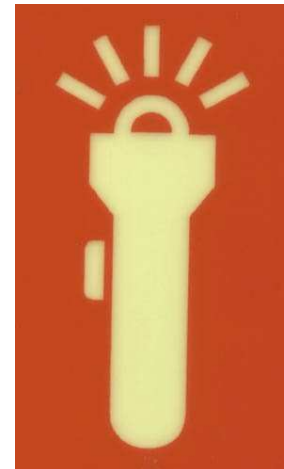
☐ No susceptibility to hot or cold.

☐ Corrosion resistant.

☐ High vibration resistance.

☐ Can be used on metals, plastics, concrete, and asphalt.

☐ Permalight® products have sun filters available, which feature no degradation from UV or Infrared (IR).



## Uses On Aircraft Vehicles:

☐ Lettering or striping on the outside of the aircraft or vehicle.

☐ Emergency exit signs.

☐ Egress emergency floor lighting.

☐ Lavatory "night light".

☐ Auxiliary lighting for non-lit items in the cockpit.

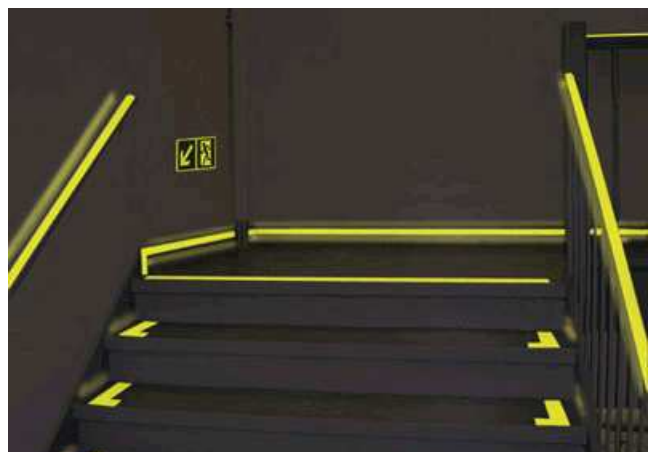
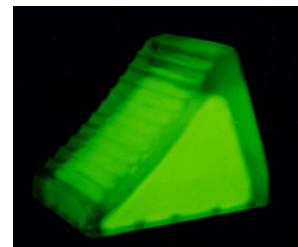
☐ Landing gear handles.

☐ Under the glare shield.

☐ Any item needing visual acuity.

☐ Cargo holds.

☐ Inspection areas.



Sold & Serviced in the United States & Canada by G. S. I. Inc.

Manufactured by:

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[HOME](#)

[PRODUCTS](#)

[WHAT'S NEW](#)

[WHO WE ARE](#)

[BUSINESS PARTNERS](#)

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