



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

*Manufacturer & Distributor of Aerospace Lighting*

E-Mail: [gsiinc@knology.net](mailto:gsiinc@knology.net)

**Godfrey Systems International, Inc.**

3051 Pine Street ☐ Clearwater, FL. 33763-0914 ☐ U. S. A.

Tel: (727) 799-4916 ☐ Fax:(727) 724-0212

[HOME](#)

[PRODUCTS](#)

[WHAT'S NEW](#)

[WHO WE ARE](#)

[BUSINESS PARTNERS](#)

## PHOTOLUMINESCENCE FOR AIRFIELD

### Description:

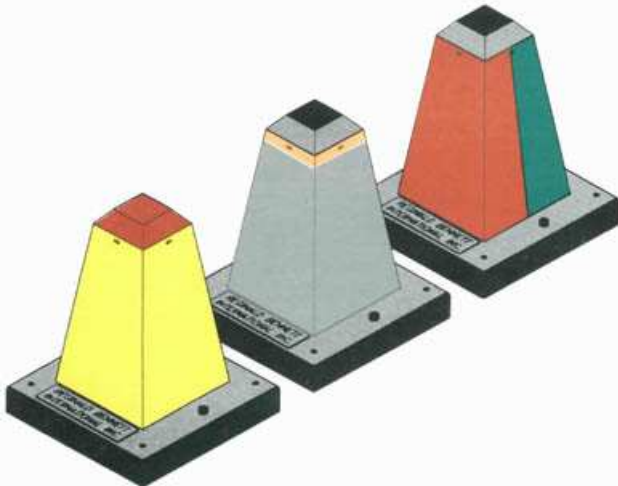
Photo luminescent pigments were first developed in 1976.

These original pigments were fully annealed zinc sulfide crystals. In 1990, Permalight® introduced the first strontium aluminate pigments. 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.



### Applications:

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



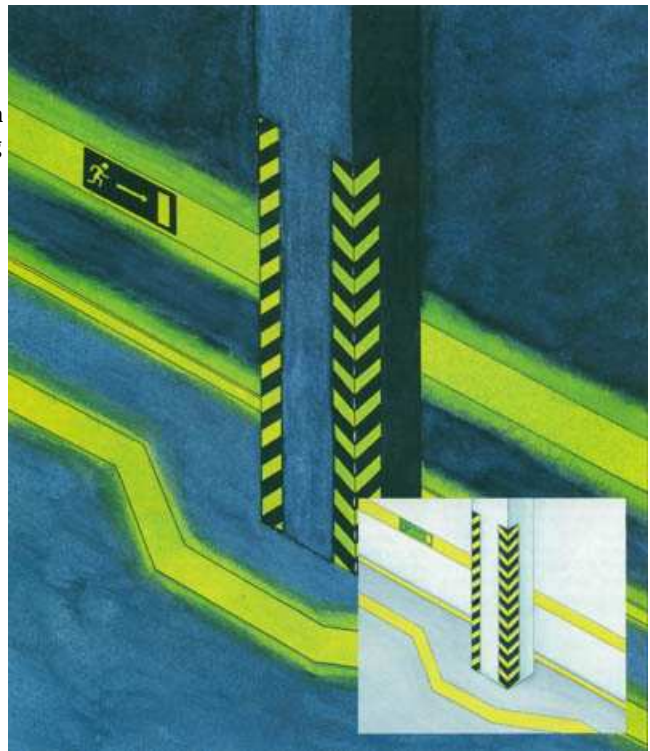
These products have virtually unlimited uses such as "unlighted" taxiway guidance signs, "unlighted" retro-reflective markers, emergency lighting, stair markings, directional signs, traffic markings, handles and knobs, pavement markings (such as numbers), striping, and protective clothing. The uses are almost unlimited!

☐ 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.

### 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, taxiway guidance).
- ☐ **Understandable:** Easy to understand in every language.



### Additional Features:

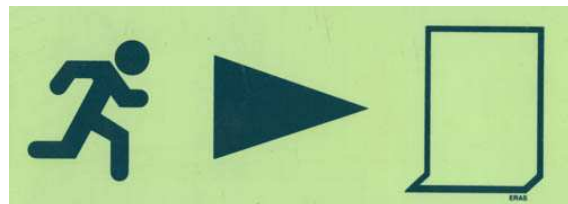


- ☐ No Electro Magnetic Interference (EMI) or Radiated Frequency Interference (RFI).
- ☐ No susceptibility to hot or cold.
- ☐ Corrosion resistant.
- ☐ High vibration resistance.



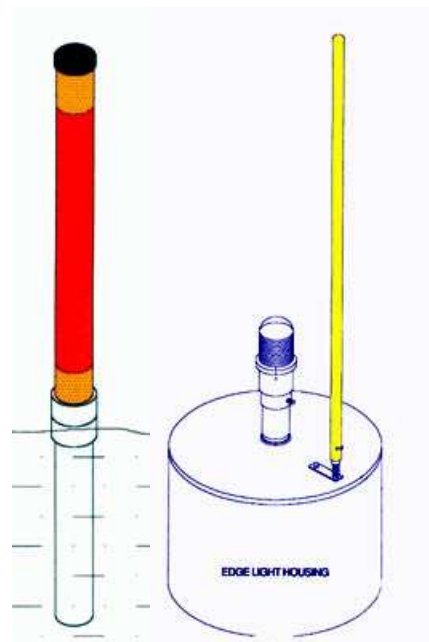
- ☐ Can be used on metals, plastics, concrete, and asphalt.

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



### Uses On Airfields:

- ☐ Lettering or striping on runways, taxiways, aprons, etc.
  - ☐ "Unlighted" signs.
  - ☐ Backup for other lighting.
  - ☐ Vehicle identification.
  - ☐ Hand hold / splice box identification.
- ☐ Painting obstructions (towers, antennas, control towers).
  - ☐ Facility emergency egress lighting.
- ☐ Improved safety situational awareness during darkness.
  - ☐ "Unlighted" retro-reflective markers.



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

Manufactured by:

**PERMALIGHT®**

Permalight

Hoher Holzweg 32 ☐ 30966 Arnum ☐ Germany

Tel: + 49 51 01 92 63 0 ☐ Fax: + 49 51 01 50 13

E-mail: [info@permalight.com](mailto:info@permalight.com) ☐ Website: [www.permalight.com](http://www.permalight.com)

[HOME](#)

[PRODUCTS](#)

[WHAT'S NEW](#)

[WHO WE ARE](#)

[BUSINESS PARTNERS](#)

Created By KMPH - Web Architect, G. S. I. Inc.

Updated: *May 22, 2006*

©1997-2006 ☐ All Rights Reserved

Wade  
Publishing 