

# Luminescent "LLL" products in Vinyl

## TECHNICAL SPECIFICATIONS

### Product

Smart Signs luminescent LLL (Low Location Lighting System) guide lines, circles and signs in Vinyl (Polycarbonate) are manufactured in accordance with all requirements in Norwegian standard NS3926: 17, the standard that deals with luminous guide systems.

The products are available in several widths and lengths, also as circles.

### Product description

Very strong 0.90 mm thick guide line, circles and signs in Vinyl (Polycarbonate) with high illuminating properties, treated with antistatic surface that is easy to keep clean.

The products are specially developed for gluing to floor surfaces or milling into coatings, parquet and concrete, and work excellently in areas with weak natural or artificial lighting.

### Placement and assembly

Adapted to the customer's needs. Normally used for floor mounting. Applications are in buildings, ships, rigs, tunnels and mines.

### Fire tolerance

- Flameproof
- Self-extinguishing
- Does not emit toxic gases (equivalent to fire class M1)

The material has good fire resistance and does not contribute to the spread of fire.

### Health and safety

The products are harmless and do not contain any radioactive substances. In terms of toxicity, the products are considered safe according to European standard EN 71-3.

### Wear and Slip Safety

Smart Signs' luminous, self-adhesive line markings and signs in Vinyl have high wear resistance and extra good resistance to wear from passers-by and shocks.

### Photoluminescent (luminescent) properties

Smart Signs products are in accordance with the requirements of Norwegian and international standards.

When stimulated by ambient light at 1000 lux for 5 minutes, the illuminating properties are as follows:

Time after light is off	Luminance intensity (mcd / sqm)
10 minutes	511
60 minutes	62.6

Total Expatriation Time	Duration without light (minutes)
0.32 mcd / sqm	5980

#### Pictograms, Colors, Designs

Pictograms, colors and design used in Smart Signs LLL product series are in accordance with national and international standards and legislation NS3926: 17 and ISO standards NS-ISO: 3864 and and NS-EN ISO: 7010.

#### Print

The illuminating material is screen printed and UV-treated for long life.

#### Cleaning

Wipe with a clean, dry or damp cloth. Mild detergent can also be used.

#### Warranty

Smart Signs provides a 3-year guarantee for products that are glued to the floor and are exposed to direct steps based on otherwise normal conditions. For products that are milled into the floor, a 5-year guarantee is given.

#### Quality and certification

Smart Signs has a type approval certificate with luminance tests from SP Swedish Technical Research Institute.

The quality of Smart Signs Vinyl products is ensured by strict quality control in accordance with all relevant standards.

#### Legislation and standards

Smart Signs lighting products comply with the following standards:

- ISO 16069:2004
- ISO 7010:2003
- ISO 3864
- ISO 15370:2001 (ship)
- IMO Resolution A.752 (18)
- DIN 67510