

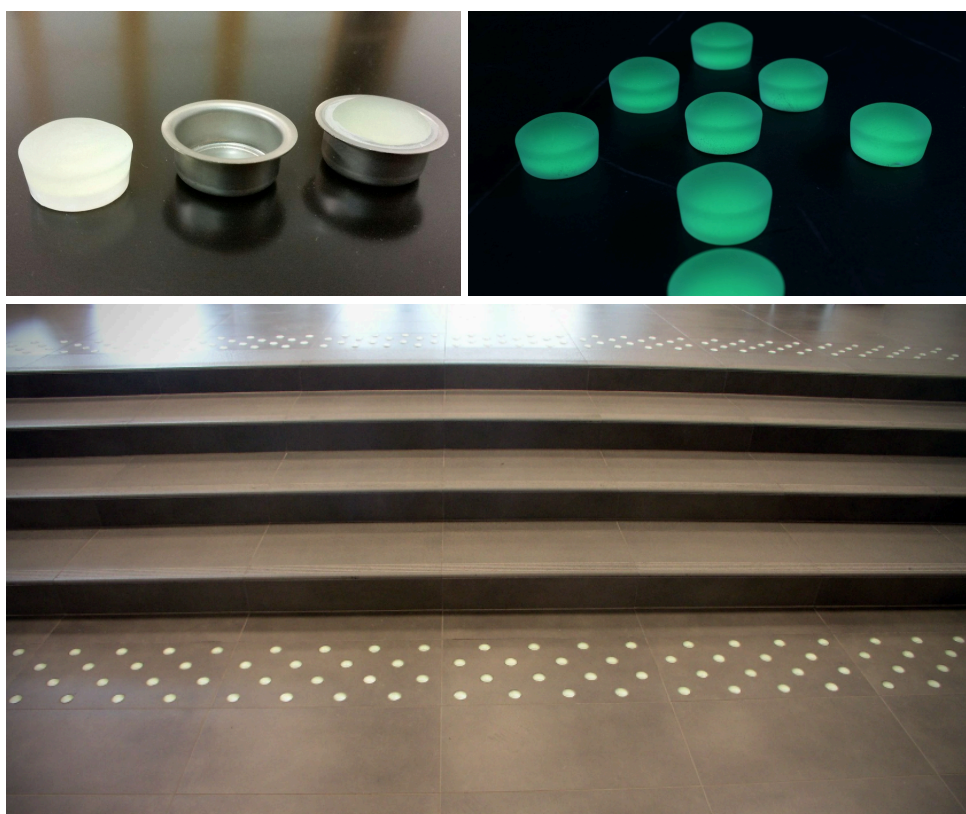
Manufacturer

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TECHNICAL DATA SHEET

GW0009 Photoluminescent Glass Button



1. PRODUCT DESCRIPTION AND APPLICATIONS

- **Intended use:** An embeddable photoluminescent warning and guidance stud designed for the floors of public and private buildings (particularly for terrazzo and stone floors).
- **Accessibility:** The product is specifically designed for the routing and guidance of visually impaired persons and for meeting accessibility requirements. The stud features a raised profile rising 5 mm above the floor surface, which can be detected and followed with footwear or a white cane.
- **Warning function:** The studs are primarily used in dot patterns to warn visually impaired individuals of approaching stairs or level changes.

- **Photoluminescent properties:** The product operates entirely ecologically without electricity or an external power source. It absorbs energy from ambient natural or artificial light and releases it in the dark by glowing brightly for several hours. Floor-level routing has been proven by research to reduce evacuation times in emergency situations.
- **Lifecycle:** Indoors, the product retains its pigment and photoluminescent performance for up to 25 years. It is completely maintenance-free, non-toxic, non-radioactive, and corrosion-free.

2. DIMENSIONS AND INSTALLATION COMPONENTS

- **Glass stud dimensions (Diameter x Height):** 25 x 15 mm.
- **Installation accessory (Mounting cup):** The product is always installed with its dedicated acid-proof steel mounting cup, product code GW0062.
- **Mounting cup dimensions:** Collar width 35 mm, cup top edge width 26 mm, bottom width 25 mm, and cup depth 11 mm.
- **Required installation space (Drilled hole in the floor):** Diameter 28 mm, depth 13 mm.
- **Height position from the finished floor:** When the mounting cup is pressed into the drilled hole, it automatically sets the glass stud to the exact and standardized level, which is 5 mm above the finished floor surface.

3. MATERIAL PROFILE AND TECHNICAL PROPERTIES

Component	Material / Property	Result / Description
Glass Stud GW0009	Raw material	Ultra-clear Optiwhite glass
	Surface finish	Surface roughened / etched, creates an opaque, elegant, and slip-resistant surface
	Color in daylight	Green
	Photoluminescent color	Green
Mounting Cup GW0062	Material	Acid-proof steel, with a 3 mm collar/flange

- **Photoluminescent performance and classification:** According to official tests by the SP Technical Research Institute of Sweden (incl. DIN 67510-1 and ISO 16069), the glass stud is classified in the highest PSPA Class D category.
 - **After 2 minutes:** 1534 mcd/m²
 - **After 10 minutes:** 338 mcd/m²
 - **After 60 minutes:** 44.1 mcd/m²
 - **Light attenuation time (down to 0.3 mcd/m²):** 3097 minutes

4. CLEANING AND MAINTENANCE INSTRUCTIONS (General instructions for glass products)

- **Regular cleaning:** Warm water and general neutral cleaning agents with a pH between 6 and 8 should be used for cleaning. In accordance with EN ISO 10545-14:1998 testing, standard dirt is easily removed from the glass surfaces using this method. Depending on the site, cleaning is performed several times a day, daily, or weekly.
- **Prohibited chemicals (Chemical resistance):** Under no circumstances should hydrofluoric acid or its derivatives be used for cleaning, as they will corrode and destroy the glass surface. Surface-roughened products should also not be treated with hydrochloric acid or citric acid solutions.
- **Mechanical restrictions:** The use of abrasive cleaning pads, scouring powders, or wire brushes is strictly prohibited. They scratch the glass and grind down the roughened surface, which significantly degrades the slip resistance of the product.
- **Maintenance agent prohibitions:** The use of film-forming maintenance agents or waxes is prohibited, as they fill the microstructure of the surface and impair slip resistance.
- **Pressure washing:** Although the glass tile or stud itself can withstand heavy mechanical stress, the use of a pressure washer is not recommended. Strong localized water pressure can damage the polymer seals of the mounting cup, allowing moisture to penetrate under the stud and detach it from its base.

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