

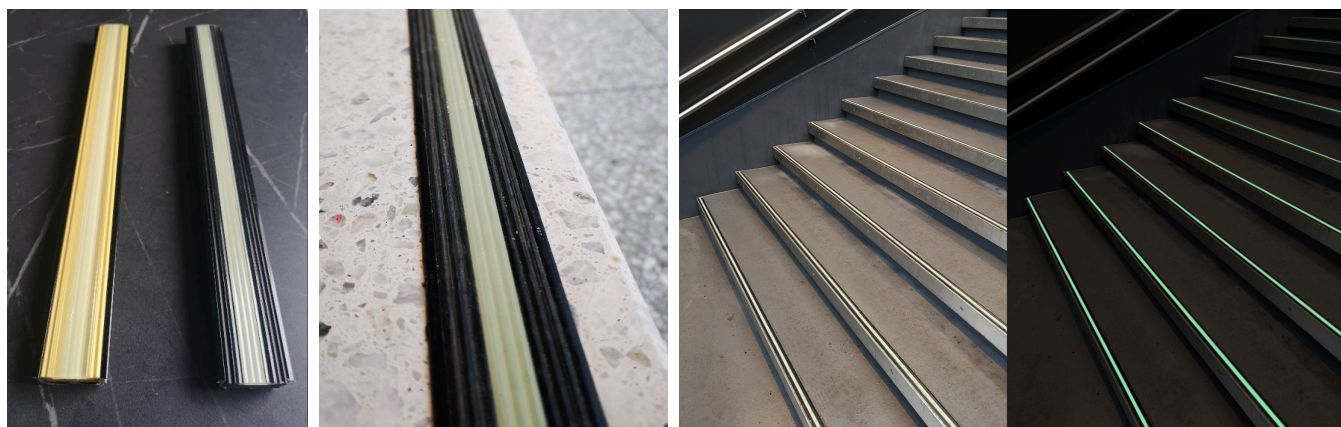
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TECHNICAL DATA SHEET

GW0092A & GW0092B Stair nosing retro-fit model with antislip feature



1. PRODUCT DESCRIPTION AND APPLICATIONS

- **Intended use:** A highly durable retrofit stair nosing suitable for stone, concrete, and other stairs. Designed to withstand heavy mechanical stress in both indoor and outdoor use.
- **Accessibility and warning function:** The product features a patented photoluminescent stripe that glows in the dark, guiding individuals safely during power outages or other emergency situations. The rubber material acts as an excellent anti-slip surface.
- **Functionality:** The system is two-part: it consists of an aluminum mounting channel (GW0092B) attached to the base, and a flexible rubber insert (GW0092A) containing the photoluminescent pigment, which is placed into the channel.

2. DIMENSIONS AND COMPATIBILITY

- **Dimensions (GW0092A flexible rubber part):** 28 x 13 x 2200 mm (width x height x length).
- **Dimensions (GW0092B aluminum mounting channel):** 31 x 16 x 2200 mm (width x height x length).
- **Compatibility:** The rubber part and the aluminum channel are designed to be installed into each other to form a seamless, integrated unit.

3. MATERIAL PROFILE AND VISUAL PROPERTIES

- **Base material (GW0092A):** The black anti-slip part is a flexible calcium-stabilized PVC compound, and the transparent photoluminescent stripe is a polyether-based thermoplastic polyurethane (TPU). The materials are phthalate-free (DEHT plasticizer).
- **Base material (GW0092B):** The mounting channel is made of medium-strength aluminum alloy EN AW-6063 (architectural alloy, temper T6, T4, or T66). Aluminum has good surface treatment properties and high corrosion resistance. It is easily anodized and is also available in RAL colors.
- **Product color in daylight:** The rubber body is black.
- **Photoluminescent color in the dark:** The warning stripe glows green.

4. MECHANICAL PROPERTIES AND CERTIFICATES

A. Mechanical Durability (Tests by VTT Technical Research Centre of Finland Ltd)

- **Load capacity (Compressive strength):** Withstands the weight of a car tire rolling over it (approx. 8.6 kN or 875 kg) with a very safe margin and without significant deformation.
- **Friction and slip resistance:** The average initial friction coefficient is 0.61 and the kinetic friction coefficient is 0.5, indicating excellent grip and effectively preventing slipping.
- **Wear resistance (Taber test):** In a test conducted according to standard SFS-EN 660-2, after 5000 test cycles, absolutely no measurable or visible wear was observed on the product's surface.

B. Technical Values of Plastic and Rubber Parts (GW0092A)

Property	Black PVC Body	Transparent TPU Luminous Part	Unit
Specific gravity	1.46	1.22	g/cm ³
Hardness	80 (Shore A)	87 +/- 3 (Shore A)	-
Tensile strength	17	7500	MPa / PSI
Elongation at break	290	290	%
Cold flex / Temp.	-15	-45 ... +40 (Operating temperature)	°C
Fire rating	UL 94@3.0mm V2	-	-

5. PHOTOLUMINESCENT PROPERTIES (DIN 67 510 Part 1)

The luminance of the photoluminescent pigment meets the standard requirements. The sample pre-illumination used in the measurement was $E = 999.4 \text{ lx}$.

- **After 2 minutes:** 1122 mcd/m^2
- **After 10 minutes:** 226.2 mcd/m^2

6. STRUCTURAL PROVISIONS AND DESIGN REQUIREMENTS

- **Installation method on the floor:** The product is surface-mounted and a so-called retrofit model, meaning it is installed directly onto the staircase or other base using the aluminum mounting channel (GW0092B).
- **Recommended fastening:** The aluminum mounting channel is mechanically fastened to the base with screws. The flexible rubber part is then pressed firmly into the channel.

7. CLEANING, MAINTENANCE AND CHEMICAL RESISTANCE

- **Permitted cleaning agents:** The product should be cleaned regularly using warm water and general neutral cleaning agents (pH 6–8).
- **Prohibited chemicals and methods:** Under no circumstances should hydrofluoric acid or its derivatives be used for cleaning. The use of abrasive cleaning agents or wire brushes must be avoided, as they can scratch the product's surface. Film-forming maintenance agents (e.g., waxes) are not recommended, as they can impair the product's slip-resistant properties.

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