

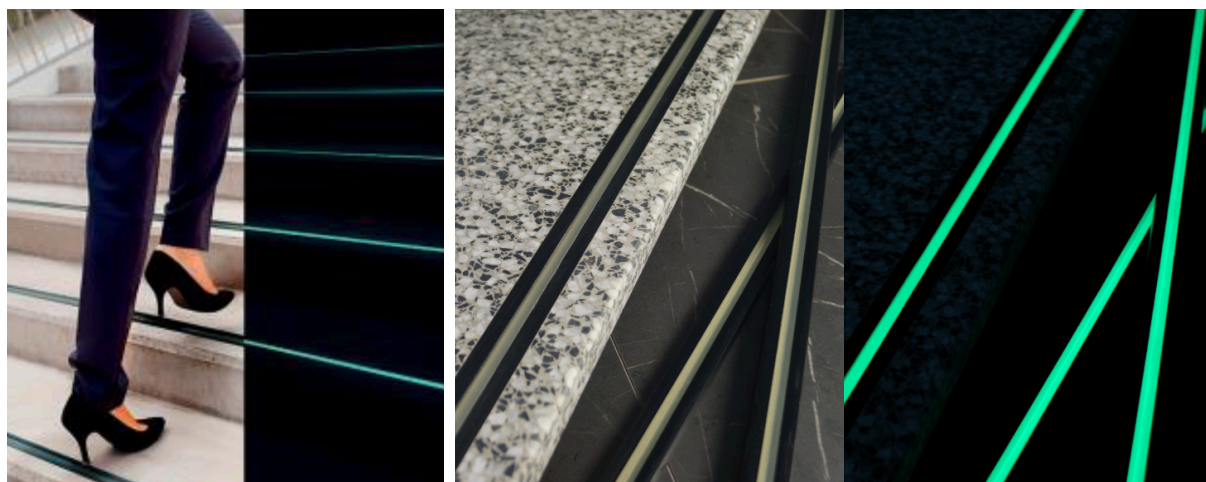
Manufacturer

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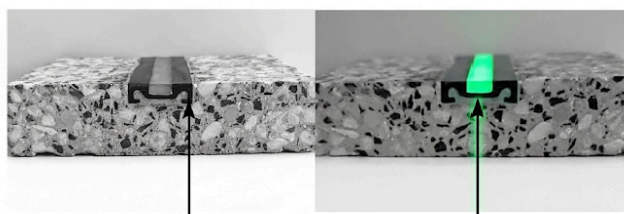
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TECHNICAL DATA SHEET

GW0091N Stair nosing pre-cast model



Size mm 30 x 10 x 1100
(width x height x length)



Rubber
(transparent + black)

Afterglow pigment,
color green

1. PRODUCT DESCRIPTION AND APPLICATIONS

- **Intended use:** A photoluminescent contrast strip designed for concrete stairs in public buildings. A recommended solution for improving evacuation safety and accessibility.
- **Installation method:** The strip is positioned in place already at the stair factory during the casting of the step. The finished step requires no further processing or additional measures on-site during the installation phase.
- **Functionality:** The black body of the product acts as a highly distinct contrast stripe. The integrated photoluminescent pigment charges from light and glows green in the dark, providing guidance without the need for electricity.
- **Extendability:** The product can be easily extended into continuous, long sections using separate extension pieces. The joint is rigid and keeps the strip perfectly straight during the casting process.

2. DIMENSIONS AND DELIVERY FORMAT

- **Dimensions (Width x Height x Length):** 30 x 10 x 1100 mm.
- **Structure:** Composite material (flexible black PVC body and an integrated TPU luminous part).

3. MATERIAL PROFILES AND TECHNICAL PROPERTIES

A. Black Body (ToppProfile T1698)

- **Material number:** 90075E
- **Description:** Flexible PVC compound.
- **Stabilization and plasticizers:** Ca/Zn stabilized, DEHT/DOTP (phthalate-free).
- **Certificates:** REACH Regulation 1907/2006 and RoHS3 Directive 2015/863.

Property	Test Method	Result	Unit
Specific gravity	ISO/R 1183	1.22	g/cm ³
Hardness (15 sec @ 23°C)	ISO/R 868	70	Shore A
Thermal stability	EN ISO 182-1	20	min

B. Transparent Luminous Part

- **Material number:** 9408000
- **Description:** Polyether-based thermoplastic polyurethane (TPU).
- **Certificates:** REACH Regulation 1907/2006 and RoHS Directive 2015/863.

Property	Test Method	Result	Unit
Specific gravity	ASTM D-792	1.22	g/cm ³
Hardness (5 sec)	ASTM D-2240	87 +/- 3	Shore A
Elongation at break	ISO/R 527 (@ 500 mm/min)	290	%
Tensile strength	ASTM D-412	7500	PSI
Operating temperature range	-	-45 ... +40	°C

C. Extension Pieces / Connectors

- **Material number:** 92078
- **Description:** Rigid PVC compound.
- **Color:** Transparent, bluish tint.
- **Stabilization:** Tin-stabilized system.
- **Certificates:** REACH Regulation 1907/2006 and RoHS3 Directive 2015/863.

Property	Test Method	Result	Unit
Specific gravity	ASTM D-792	1.32	g/cm ³
Vicat softening temperature	ISO EN 306 B50	74	°C
Thermal stability (200°C)	ISO EN 182-1	>20	min

4. PHOTOLUMINESCENT PROPERTIES

Light performance measurements were conducted in accordance with the official DIN 67 510 Part 1 standard. The product charges automatically from ambient artificial light or daylight.

- **Sample pre-illumination:** E = 999.4 lx.
- **Light attenuation in the dark:**
 - Luminous intensity immediately upon darkness (0 min): 7550 mcd/m²
 - Luminous intensity after 2 minutes: 1122 mcd/m²
 - Luminous intensity after 10 minutes: 226.2 mcd/m²

Exact attenuation table:

Time (min)	Luminous intensity (mcd/m ²)	Time (min)	Luminous intensity (mcd/m ²)
0	7550	4.5	519.3
0.5	3271	5	466.8
1	1999	5.5	423.5
2	1122	7	330.3
3	772	9	253.4
4	583.4	10	226.2

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