

# Product Data Sheet

## PERMALIGHT<sup>®</sup> Power 150/22 Anti-Skid Disc

SKUs: 83-40247 (4") and 83-40227 (2 3/8")

### Product Description

The PERMALIGHT<sup>®</sup> Power 150/22 aluminum anti-skid disc's are engineered for safety and visibility, featuring durable photoluminescent properties that comply with ASTM, DIN, and UL1994 standards. It emits a bright, reliable afterglow to guide building occupants during low-light conditions or emergencies. As an anti-slip disc, it marks critical floor areas including escape routes, stairways, uneven surfaces, and locations with potential obstacles, providing both enhanced visibility and traction where safe egress is essential.

### Product Specifications

- **UL Model:** CC-ALU
- **Material:** Photoluminescent Aluminum Disc
- **Surface:** R10 Slip Resistant (DIN 51130)
- **Temperature Resistant:** -50°C to +130°C
- **Outdoor Durability:** 2 years\*
- **Indoor Durability:** Virtually Unlimited
- **Class A Fire-Rated** (non-combustible)
- **Light Activation:** LED or fluorescent lighting

\* Printed sign under vertical outdoor exposure and Central European standard climate conditions.

#### Durability in Outdoor Use – Assessment after 2 Years of Weather Exposure

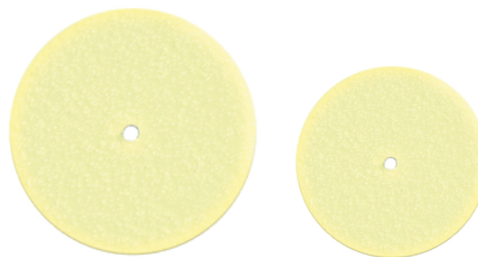
- **Overall appearance:** Surface slightly duller, sign remains flat and smooth.
- **UV stability and color retention:** Colors slightly faded, readability 100% maintained.
- **Overall assessment:** The entire combination withstands 2 years of outdoor use.

#### Technical data (83-40247)

- **Disc Size:** 4 inches x 4 inches
- **Thickness:** 1.5 mm
- **Disc Weight:** 1 Ounce

#### Technical data (83-40227)

- **Disc Size:** 2-3/8<sup>th</sup> inches x 2-3/8<sup>th</sup> inches
- **Thickness:** 1.5 mm
- **Disc Weight:** 0.4 Ounces



#### Luminance Values (DIN 67510 and UL1994)

Luminance 10 min after light outage	Luminance 60 min after light outage	Classification by manufacturer *** (10/60 min value)	Decay duration
150 mcd/m <sup>2</sup>	22 mcd/m <sup>2</sup>	Class C (140/20 mcd/m <sup>2</sup> )	2100 min / 35 h

\*\* According to DIN 67510-1:2020 – Long-lasting photoluminescent pigments and products, measurement and classification by the manufacturer.

## Application and Use

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### Flat Floor Surfaces:

- Lightly sand glossy or smooth floors to help the adhesive grip
- Wet clean the area thoroughly to remove grease, grime, dust, and dirt
- Apply a continuous wavy line of construction adhesive (e.g., Loctite 375 or Liquid Nails) to the white underside of the disc
- Firmly press the disc onto the clean, dry floor while slightly rotating it to ensure strong contact
- Wipe away any excess adhesive, especially from the surface and center hole
- Ensure chevron arrows point in the direction of egress

### Grating / Catwalks

- Use a toggle bolt with spring-loaded wings sized to match grating depth
- Insert the bolt through the disc hole; apply a wavy bead of adhesive to the disc's white underside
- Reattach the wings to the bolt, then push through the grating until the wings spring open
- Tighten the bolt from above to anchor the disc
- Ensure the chevron arrow points in the direction of evacuation
- Once the adhesive cures, the disc will be locked in place and resist rotation from foot traffic

### Post-Installation Care

- Let adhesive sit for 24 hours before use or cleaning
- Do not use abrasive, alcohol-based, or solvent-based cleaners
- Clean frequently to extend product life

## Cleaning Instructions

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- A sponge soaked in a warm water solution of mild alkaline detergent is recommended for cleaning the surfaces
- Do not use abrasive cleaners such as scouring agents, alcohols, or solvents

## Storage Instructions

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- Store at a temperature of 21°C with approximately 50% relative humidity
- Keep the product away from direct sunlight
- Avoid mechanical damage and sharp bends during storage and handling
- Failure to follow these guidelines may reduce the product's service life

## Required Accessories

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- **86-7006:** Pressure Roller – to firmly press-apply the tape
- **83-0781:** 3M Tape Primer 94 – a solvent-based adhesive used to prepare floor surfaces before applying slip-resistant tape. (One quart covers approximately 35 square feet.)
- **83-0783:** Edge Sealing Acrylic Lacquer – to seal the edges of anti-slip tape. (One bottle yields 150 linear feet.)

**Important Notice:** All PERMALIGHT products undergo rigorous quality control throughout the manufacturing process. We supply all products in commercial quality and free from manufacturing defects. Published product information does not constitute a guarantee of properties within the meaning of § 443 BGB. Given the wide range of applications and the continuous development of new uses, it is the user's responsibility to carefully evaluate the product's suitability and performance before use.

The buyer assumes all risks arising from the use of the product, particularly for obviously improper applications. Modifications are subject to change.