

## Type 2003 Permalight® Power 150 Photoluminescent Aluminum Sign

### 1. Manufacturer

All labelling products are produced according to ISO 9001 and ISO 14001 and comply with the highest quality standards. Selected parameters such as weather resistance and chemical resistance are audited in our in-house laboratory and checked periodically.

### 2. Product specifications

Material class	<b>PERMALIGHT® Power 150</b> photoluminescent aluminum
Alloy	AL Mn1 Mg 0,5 in accordance with EN 573-3
Coating	Polyurethane one side white
Temperature resistance	- 50 °C to + 130 °C (+ 150 °C for a short time)
Durability for outdoor use	2 years*
Durability for indoor use	Almost limitless
Fire class A (non-flammable)	✓
	*printed sign under vertical outdoor exposure and in normal Central European climate

<b>2.1 Durability for outdoor use:</b>	Assessment after 2 years of exposure
Overall appearance	Slightly less shiny surface, sign flat and even
UV stability colour	Minimal fading, 100% readability
Overall evaluation	Overall combination lasts for at least 2 years of outdoor use

#### 2.2 Technical data

Surface	30 – 35 GE / 20° DIN 67531
Thickness	0,6 – 1,3 mm

Persistence values DIN 67510

Product	Luminance ** 10 min. after loss of light	Luminance ** 60 min. after loss of light	Classification according to manufacturer *** (10/60 minute value)	Decay time
<b>PERMALIGHT® Power 150</b>	150 mcd/m <sup>2</sup>	22 mcd/m <sup>2</sup>	Class C (140/20 mcd/m <sup>2</sup> )	2100 min/ 35 hrs

\*\* in accordance with DIN 67510-1:2020 Phosphorescent pigments and products, measurement and identification by manufacturer

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#### 2.3 Wipe Resistance

Wipe test based on DIN 30643

Isopropyl	✓
n-Heptane	✓
Artificial sweat solution	✓
Greases	✓

#### 2.4 Chemical Resistance

Immersion Test bases on DIN 30646

Distilled water 65 °C	✓
Detergent solution 10 %	✓
Cold cleaner	✓
Transformer oil	✓
White spirit 145/200	✓
Anti-freeze solution	✓
Diesel	✓

#### Deutschland

**Kroschke**  
sign-international  
GmbH

Kroschkestraße 1  
D-38112 Braunschweig

[www.kroschke.com](http://www.kroschke.com)

vertrieb@kroschke.com  
Tel. +49 531 318-318 Fax -151

#### Österreich

**Kroschke**  
Ges.m.b.H.  
Arbeitssicherheit  
und Kennzeichnung

Inkustraße 1 - 7  
A-3400 Klosterneuburg

[www.kroschke.at](http://www.kroschke.at)

office@kroschke.at  
Tel. +43 2243 3 457-457 Fax -444

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### 3. Use and application

Our Aluminium signs are specially designed for use in harsh industrial environments. They have a high dimensional stability and breakage resistance, an almost limitless indoor use and at least two years durability for outdoor applications. They offer a fast and practical possibility for permanent and individual identification. In addition, they have high durability, are weather resistant and resistant to many chemicals.

Long-lasting safety signs provide increased security in the effective detection of existing evacuation routes, first-aid facilities and fire-fighting equipment even in the dark.

**Depending on your requirements, you can choose from the following product categories:**

**PERMALIGHT® Plus** products are suitable for use with low requirements for sufficient luminance and decay time.

**PERMALIGHT® Power** products meet the requirements of the ASR A1.3 and ASR A2.3 for safety signs and for the installation of long-lasting visual safety way guidance systems.

Possible areas of application:

- Signs which are permanently exposed to wind and weather
- Marking areas with very high ambient temperatures
- Mounting on fences, grilles, poles and posts
- Passageways and cargo openings

### 4. Processing guidelines

The signs are suitable for mounting on most flat surfaces. You can screw the sign on, hang it up or glue it on.

### 5. Cleaning of signs

To clean the signs, we recommend using a damp cloth soaked in a water solution of mild, alkaline cleaning product (such as detergent).

The use of abrasive cleaning agents (such as scouring agents), alcohol and solvents is not recommended.

### 6. Storage instructions

Storage life of unopened original packaging at 23 °C / 50 % relative humidity and out of sunlight amounts to 5 years. Mechanical damages and sharp kinking must be avoided. Noncompliance with storage instructions reduces product lifespan.

**Important note:** All products are subject to comprehensive quality control during the entire manufacturing process. We deliver all products in commercial quality and free from manufacturing defects. Information published on the products expressly does not constitute a guarantee of quality in the sense of § 443 BGB (German Civil Code). Due to the wide range of possible uses and the ongoing development of new applications, it is the responsibility of the user to carefully check the suitability and performance of the products for the respective purpose and before use. The buyer bears all risks arising from the use of the product. This applies in particular to obviously improper use. We reserve the right to make changes.

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**Kroschke**  
sign-international  
GmbH

Kroschkestraße 1  
D-38112 Braunschweig

[www.kroschke.com](http://www.kroschke.com)

[vertrieb@kroschke.com](mailto:vertrieb@kroschke.com)  
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