

handraiLIT –
THE PERFECT
THE SIMPLEST WAY
HANDRAIL SYSTEM
TO INCREASED SAFETY
FOR YOUR PROJECT



RHOMBERG RAIL

Member of the
RHOMBERG SERSA RAIL GROUP

YOUR WAY IS OUR GOAL

Whether a guidance system in rail tunnels, passage undergrounds, safety elements in schools or kindergartens, decoration for offices, hotels or at your home terrace – the unique guidance system handraiLIT takes you fast und safely to your destination.



TUNNEL APPLICATIONS

handraiLIT – THE SYSTEM

handraiLIT is a modern, cost-effective orientation and guidance system for railway tunnels and many other applications. The handrail with integrated orientation lighting ensures the highest level of safety. Its excellent user-friendliness, low maintenance requirements and compliance with all applicable standards and regulations mean handraiLIT can meet the highest demands. Furthermore it is certificated by the Austrian Federal Railways (ÖBB).

INCREASED SAFETY THROUGH REDUNDANT POWER SUPPLIES

A failure of one piece of the power supply network has no effect on the proper functioning of handraiLIT, thanks to the redundancy built into the power feed arrangements. Complete and consistent lighting is therefore effectively guaranteed.

SIMPLE, PROBLEM-FREE INSTALLATION

handraiLIT is quick and simple to assemble and install. Special tools are not needed. Therefore the installed elements can be disassembled in just a few minutes – for example for servicing.

CLEANING UP TO 100 BAR

It is a known fact that railway tunnels are often extremely dirty. As a rule this requires cleaning with high water pressure devices. handraiLIT withstands pressures of up to 100 bar without any distress. Each part and component is specially designed so that the handraiLIT remains fully functional, even after high-pressure cleaning.

THE LATEST LED TECHNOLOGY ENSURES A LONG SERVICE LIFE

The complete handrail is available in two different versions. Either as linear or point-lighting systems. The latest LED technology with a long service life used in both systems means the probability of an outage is almost down to zero.

- **Linear lighting**

The completely grouted LED light strip is inserted into the profile tube. With the halogen-free grouting component, a problem-free cleaning with up to 100 bar and protection against mechanical stress are guaranteed. The linear lighting can optionally be equipped with different LEDs, such as RGB-LEDs supplied in individual colours.

- **Point lighting NEULICHT® lighting solutions GmbH**

Two LEDs are simply pushed into the profile tube near the handrail attachment points. A big plus for point lighting: only the individual lights have to be cleaned, which minimises the cleaning bill. Furthermore the luminaires can be replaced without disassembling the handrail.

- **Recess and emergency sign lighting**

handraiLIT can also be readily used as recess and emergency sign lighting in railway tunnels, with no special tools or expensive additional materials required for installation. For this application the same components from the handraiLIT system are used.





ONE-SHOT SUSTAINABLE SOLUTION

FURTHER APPLICATIONS

SAFETY COMBINED WITH ELEGANCE

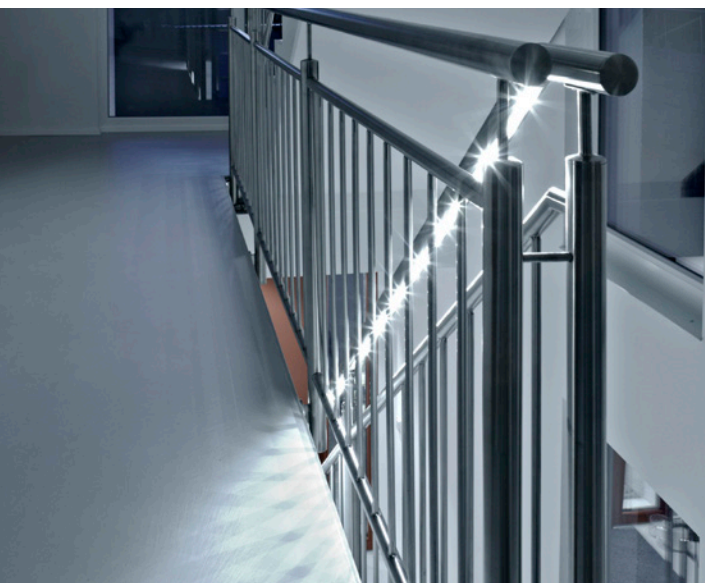
handraiLIT is even brilliant at public places. Based on the know-how in the rail sector, we designed this system for municipal and private applications, too. With seamless passages and simple mountings it combines safety and design criteria at the highest stage.

With specially developed handrail-components, like the flexible joints, every project can be realized individually. Whether outside using a remarkably robust high quality steel or inside – handraiLIT provides you safety on your ways with a unique design.

Application examples

- Stairwells with indirect lighting
- Stairwell landings with indirect lighting
- All-round lighting in museums to illuminate pictures and exhibition pieces
- Orientation and guidance lighting in hospitals, retirement homes, etc.

We would be delighted to discuss further applications of handraiLIT with you.



handraiLIT FACTS

- High-quality stainless steel segments up to 2.20 metres long
- Simple and fast installation
- Equipped with single colour or RGB-LEDs
- High-quality plug-in connections and cable entry points with safety class IP68
- Fire-retardant and halogen-free materials
- double-insulated and halogen-free cabling
- The latest LED technology with numerous lighting variants

Important for tunnel applications

- Minimum illumination of walkways: 5 lux (up to 70 Lux possible)
- System safety class IP 65
- Cleaning at up to 100 bar water pressure
- Snag-free, seamless transitions and connections
- Can be used in existing and new tunnels
- Resistant to positive and negative air pressure in railway tunnels up to 330 km/h train speed
- Increased safety from redundancy in operation
- Can also be designed to provide recess and emergency sign lighting
- Low power consumption (1 W/m) and long service life
- Light body is protected by integration into the handrail profile (degree of protection IK10)
- Austrian Federal Railways (ÖBB) certificate
- Tested accordingly to meet and exceed EMC standards



Ideas, that last.



RHOMBERG RAIL

Experience in all branches of railway engineering means our expertise is in great demand all over the world. One of our strengths is the ability to provide customer-specific solutions all delivered through the same company. Our range of services is just as broad as it is diverse. Starting with project management through to maintenance, from providing the necessary machines to equipping the site with temporary infrastructure, we undertake all types of work associated with railway and track engineering. As Rhombert customers you have access to exactly the right skills and services, optimally matched to your requirements.

Rhombert Bahntechnik GmbH
Mariahilfstrasse 29
6900 Bregenz/Austria
Tel. +43 5574 403-220
info@handrailit.com
www.handrailit.com

