Innovative LED Handrail System
The liniLED® Handrail is a revolutionary LED based handrail system, which simplifies installation through sophisticated design and the integration of continuous liniLED® Top, flexible LED strip (24 V DC) into the handrail. The liniLED® Handrail meets the highest architectural standards for indoor and outdoor projects without compromise, for any application. liniLED® LEDs are highly energy efficient and ultra cool running, with an expected lifetime of more than 50,000 hours. Ideal for long lasting indoor and outdoor handrail solutions.

- AISI 316 Stainless Steel
  (also available in AISI 304 Stainless Steel or Aluminum)
- Energy efficient & dimmable
- Expected lifetime > 50-60,000 hours
- Indoor & Outdoor
- Designed for quick & easy installation
- Uninterrupted lighting effect
- High-quality, flexible liniLED® Top LEDs
- Available in various colors & luminous intensities
- Two sizes; 1.66” (42.4 mm) or 1.90” (48.3 mm) diameter
- Manufactured in the US/EU
- ADA Compliant

**liniLED® Top | HIGH-QUALITY, FLEXIBLE & ENERGY EFFICIENT**

Precision single multi-component extrusion with in-built reflector protects against adverse environments and handling. Unique hollow chamber extrusion enables push-fit connection and phosphor stability. Rapid mounting in long continuous (up to 66ft.) runs with solder-free push fit connectors. 50,000 - 60,000 hrs, 5-year limited warranty, CRI 85-90. Colors: Warm White 2700K and 3000K, Natural White 4000K and Cold White 6500K. Versions are also available in colors: red, green, blue, amber, orange and RGB.

**Handrail | DURABLE, LUXURIOUS & INNOVATIVE DESIGN**

The liniLED® LED strips are fully integrated into the stainless steel (AISI 316) handrail. Available with an outer diameter of 1.66” (42.4 mm) or 1.90” (48.3 mm). The liniLED® Handrails can be wall mounted or post mounted. The maximum unit length of the handrail is 20’ (6 meters) and can easily be connected mechanically or by welding. The specially designed liniLED® Handrail connectors ensure a continuous illumination, without any interruption. The liniLED® Handrail components are designed for quick and easy installation and maintenance. All necessary parts required for installation are readily available, such as: cables, connectors, profiles and brackets.
**Luminous Intensities, Light Output & Power**

The liniLED® Handrail (IP65) is a revolutionary illuminated handrail system, which integrates the energy efficient, cool running liniLED® LEDs in long continuous, seamless runs, with a lifetime of more than 50,000 hours. The LED strips are available in three white luminous intensities: low output (Deco 34 lm/ft); medium output (Power 113 lm/ft); high output (PSP 227 lm/ft) : Warm White 2700K and 3000K, Natural White 4000K and Cold White 6500K. The Deco and Power versions are also available in the colors: red, green, blue and amber. Deco is available in RGB. Ensures color stability, color matching and exceptional efficacy, while our Plug and Play system design with approved components simplifies installation and specification.

**Indoor & Outdoor**

liniLED® Handrail is available as 1.1/4” pipe (1.66” / 42.4 mm diameter) and 1.1/2” pipe (1.90” / 48.3 mm diameter). Both may be applied indoor and outdoor.

**Wall or Post Mounting & Infill Options**

The liniLED® Handrails can be wall mounted or post mounted*. All components are designed for quick installation and maintenance. Post mounted are available with several infill options, e.g. glass, cables, railings, etc.

*NOTE: Post and wall bracket spacing/ height must be determined by a licensed architect or structural engineer as this will vary depending on local rules and guidelines.
Wall Mounting or Post Mounting

The wall or post brackets are designed for quick and easy installation. As shown on the image below, the position of the bracket can be moved freely in the profile by sliding it to any position while retaining continuous illumination.

Post Mounting

The liniLED® Handrail can be delivered with several infill options, such as: glass, cables and railings. It is possible to prefabricate the posts. For example: if glass infill is desired, the posts can be customized with glass clamps. Ask us about the customized options.

Continuous Illumination & Easy Installation

The wall brackets and baluster adapters are designed to move freely within the profile. When assembling the handrail, the position of the brackets and adapters can easily be modified. As shown on the image below, the power cables are fully integrated in the brackets and adapters.

*NOTE: Post and wall bracket spacing/height must be determined by a licensed architect or structural engineer as this will vary depending on local rules and guidelines.
Standard & Customized Angles

There are three standard angles for the liniLED® Handrails: 45°, 90° and 120°. Other angles can be customized upon request.

45° Angle  90° Angle  120° Angle  Customized bending

Connecting

The liniLED® Handrails can easily be connected with several connectors. One of our specialties is to translate ideas and requirements into customized solutions and to deliver the liniLED® Handrail pre-assembled*.

*NOTE: Please consult a professional electrician and handrail installer when installing the liniLED® Handrail on location.
How to Specify Your liniLED® Handrail

As each lighting project is unique, all the components of the liniLED® Handrail are professionally customized. Therefore it is of great importance to provide fully dimensioned plans, DWG files and detailed drawings, in addition to the useful menu below.

liniLED LED Technical Information

<table>
<thead>
<tr>
<th>MODELS</th>
<th>DECO – LOW OUTPUT</th>
<th>POWER – MEDIUM OUTPUT</th>
<th>PSP – HIGH OUTPUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEDs / ft</td>
<td>11</td>
<td>11</td>
<td>37</td>
</tr>
<tr>
<td>Lumen Output / ft</td>
<td>33-39 lumen/ft (112 lm/m)</td>
<td>119-122 lumen/ft (368 lm/m)</td>
<td>237-257 lumen/ft (741 lm/m)</td>
</tr>
<tr>
<td>Watts / ft</td>
<td>1 W/ft (3.3 W/m)</td>
<td>1.28 W/ft (4.6 W/m)</td>
<td>2.89 W/ft (9.7 W/m)</td>
</tr>
<tr>
<td>CRI</td>
<td>85-90</td>
<td>85-90</td>
<td>85-90</td>
</tr>
<tr>
<td>Max. Single Run</td>
<td>66 ft (20 m)</td>
<td>33 ft (10 m)</td>
<td>33 ft (10 m)</td>
</tr>
</tbody>
</table>

Environment

☐ Indoor
☐ Outdoor

Mounting

☐ Wall mounted
☐ Post mounted

Size

☐ 1.66” (42.4 mm)
☐ 1.90” (48.3 mm)

Total length: ____ ft.

Material

☐ AISI 316 Stainless Steel
☐ AISI 304 Stainless Steel
☐ Aluminum

liniLED® Top LED strip

Deco

☐ Warm White 2700K
☐ Warm White 3000K
☐ Natural White 4000K
☐ Cold White 6500K
☐ RGB
☐ Red
☐ Green
☐ Blue
☐ Amber

liniLED® Top LED strip

Power

☐ Warm White 2700K
☐ Warm White 3000K
☐ Natural White 4000K
☐ Cold White 6500K
☐ Red
☐ Green
☐ Blue
☐ Amber
☐ Orange

liniLED® Top LED strip

Power Short Pitch

☐ Warm White 2700K
☐ Warm White 3000K
☐ Natural White 4000K
☐ Cold White 6500K

Bends

☐ 45° x ___ (qty)
☐ 90° x ___ (qty)
☐ 120° x ___ (qty)
☐ Custom

Additional information:

To create a customized quotation, fully dimensioned plans, DWG files and detailed drawings are needed. Dimensions usually vary from the architectural plan, thus it is important that actual field dimensions are used: consult a professional handrail installer. In addition to the fully dimensioned plans and drawings, an electrical contractor and/or lighting designer should be consulted to obtain the best lighting results.

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