

ORGARAIL[®] Illuminated Handrail INSERT System Patents pending



Organic Lighting's Linear Handrail Insert system is a unique slide-in Handrail insert that is field adjustable and provides easy installation process with fewer connections. The INSERT System can be installed into new or existing Round, Square, or Rectangle Handrails 1.5" - 4" ØD. Organic Lighting's INSERT system uses our patent pending slide-in system, speeding up installation, making end-of-life maintenance easy, and converting traditional inserts and pucks into a linear and replaceable system with one connection every 33'.

Project
Date

Insert Features

- Retrofit most manufacturers Cap Rails.
- Converts existing illuminated rails to an easily maintainable lighting system.
- Simple and secure Slide-in design.
- Compatible with 1.5" / 1.66" / 1.9" and multiple handrail diameter options.
- Reduces electrical connections.
- Symmetric or Asymmetric lens.

OrgaLED[®] Features

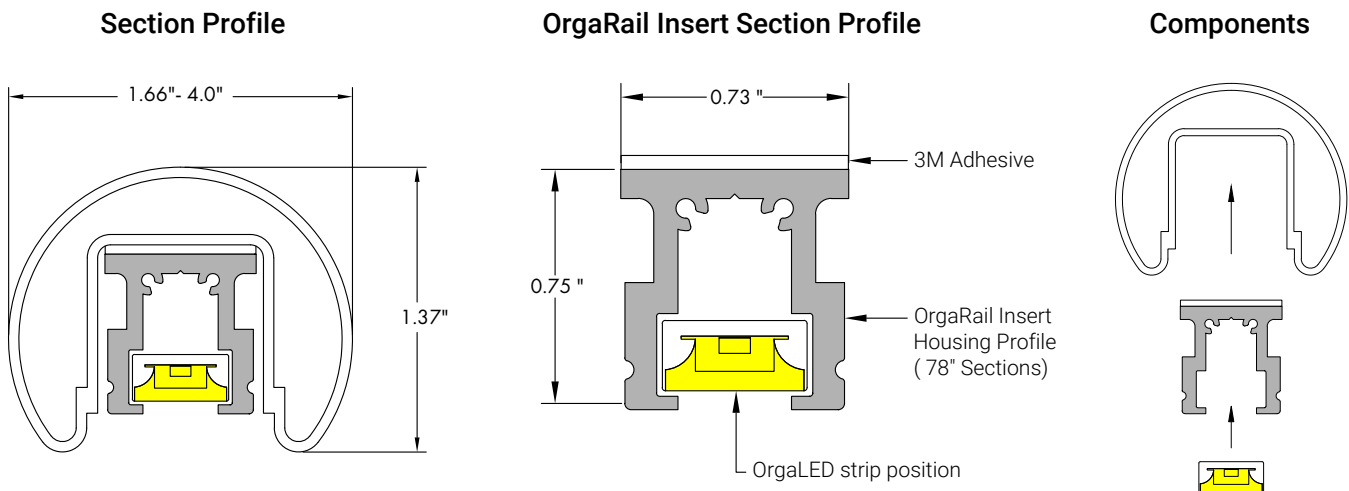
- MAX LED run length of 33' with remote power supply.
- Standard color temperatures in 2700K, 3000K, 3500K, 4000K, 5000K.
- Dimmable.
- 94 CRI+.
- 60,000 hour LED life.
- Low voltage 24VDC, Class 2.
- IP40; IP67 wet location.
- Warranty: 5 years.



ORGARAIL INSERT SYSTEM features housing with slide-in OrgaLED LED installation.

Profile Dimension

Dimensions for reference only



Specifications sheets are subject to change without notification.

ORGARAIL[®] Illuminated Handrail INSERT System

OrgaRail[®] Inserts enable long lengths of up to 33ft of flexible waterproof LED strips to be slid in from the power entry point and replaced just as easily. The insert profiles retain the strip securely without the need for additional lenses. (vandal proof lenses available as an accessory)

CONTINUOUS LONG RUNS:

OrgaRail[®] Post Top or Wall Mounts are designed to enable continuous feeds through the mounting support. When used with other manufacturers systems where the mounting components may block direct run through the insert profiles should be field cut to fit between posts with a one and a half inch gap each side of the posts, which enable the strip to transition from post to post section, by feeding it manually over the connection point.

OrgaLED Top LED



- Very Flexible (Bend radius >1.2")
- High Efficacy
- High Density
- 24V DC - Low Voltage, Class 2
- Field Cuttable 1.96in
- 8 LED per cuttable section

PART NUMBER & SPECIFICATIONS

Part #	Color	CRI	lm/ft*	W/ft
OrgaLED[®] Deco Top				
041101	2700K	>94	35.1	0.3
041102	3000K	>94	36	0.3
041103	3500K	>94	36	0.3
041104	4000K	>94	38.1	0.3
041105	5000K	>94	38.1	0.3
OrgaLED[®] Power Top				
041201	2700K	>94	116.8	1
041202	3000K	>94	120.1	1
041203	3500K	>94	120.1	1
041204	4000K	>94	127	1
041205	5000K	>94	127	1
OrgaLED[®] High Power Top				
041301	2700K	>94	198.6	1.7
041302	3000K	>94	204.2	1.7
041303	3500K	>94	204.2	1.7
041304	4000K	>94	215.9	1.7
041305	5000K	>94	215.9	1.7

*Data based on PCB without housing

OrgaRail[®] Illuminated Handrail Insert & Lens* (optional)

Part #	Description
012959	OrgaRail Illuminated Handrail Insert
012060-A	OrgaRail Illuminated Handrail Insert Clear Lens / Asymmetric (0.93" Wide)

*Lens are optional

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Organic Lighting[®] | 12203 Magnolia Ave Suite 1, Riverside, CA 92503 | 626.969.6140 | organiclighting.com | 11/2023 V17



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LED ACCESSORIES



Straight Connector Cable 16ft
IP40 / IP67
#041002



L-Connector Cable 16ft
IP40 / IP67
#041003



Jumper Cable 8in
IP40 / IP67
#041004



Top End Cap | IP40 / IP67
#041001



L-Splice Connector
IP40 / IP67
#041005



Inline Connector
IP40 / IP67
#041006



IP67 Waterproofing Kit
#011511

ORGARAIL. Illuminated Handrail INSERT System

POWER SUPPLIES - 24V

Forward Phase, Reverse Phase, & 0-10V Dimming Drivers. Remote enclosures available.

PART NUMBER & SPECIFICATIONS

Part #	Ingress	Voltage	Wattage	Dimensions (inches)	Description
POWER SUPPLIES - 24V					
045001	IP67	100-305V	20W	7.6 x 1.18 x 0.79	Dimmable LED Driver
045002	IP67	100-305V	40W	5.83 x 1.57 x 0.87	Dimmable LED Driver
045003	IP67	120-277V	60W	6.3 x 2.24 x 1.5	Dimmable LED Driver
045004	IP67	120-277V	75W	6.3 x 2.24 x 1.5	Dimmable LED Driver
045005	IP67	120-277V	96W	7.6 x 2.24 x 1.5	Dimmable LED Driver
045006	IP67	120-277V	200W	10.1 x 3.03 x 1.8	Dimmable LED Driver
045007	IP67	120-277V	300W	11.9 x 3.03 x 1.8	Dimmable LED Driver

Part #	Ingress	Dimensions (inches)	Description
ENCLOSURES			
045008	IP67	9.4 x 2.6 x 1.9	20W Enclosure
045009	IP67	11.02 x 4.05 x 2.2	40W Enclosure
045010	IP67	11.02 x 4.05 x 2.2	60W Enclosure
045011	IP67	11.02 x 4.05 x 2.2	75W Enclosure
045012	IP67	11.02 x 4.05 x 2.2	96W Enclosure
045013	IP67	16.7 x 9.8 x 2.3	200W Enclosure
045014	IP67	16.7 x 9.8 x 2.3	300W Enclosure

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20W Dimmable Driver



75W Dimmable Driver



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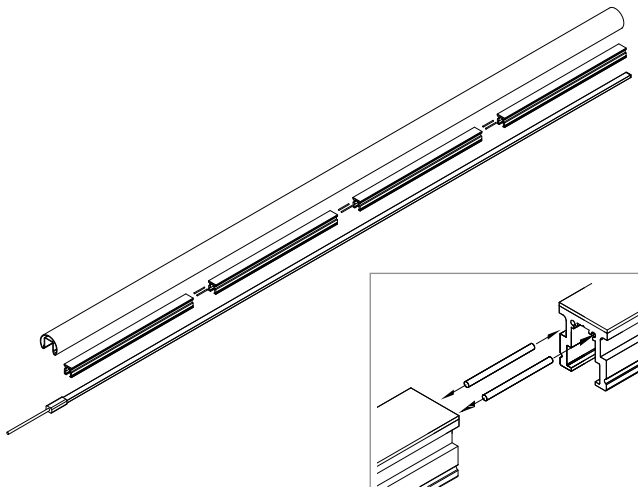
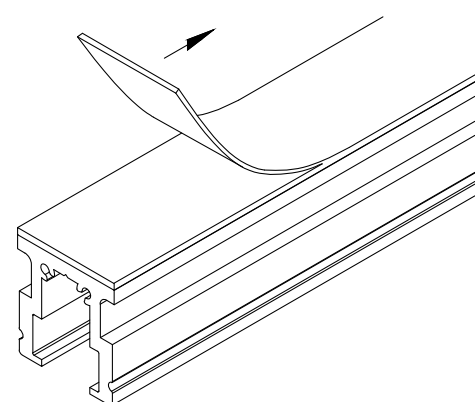
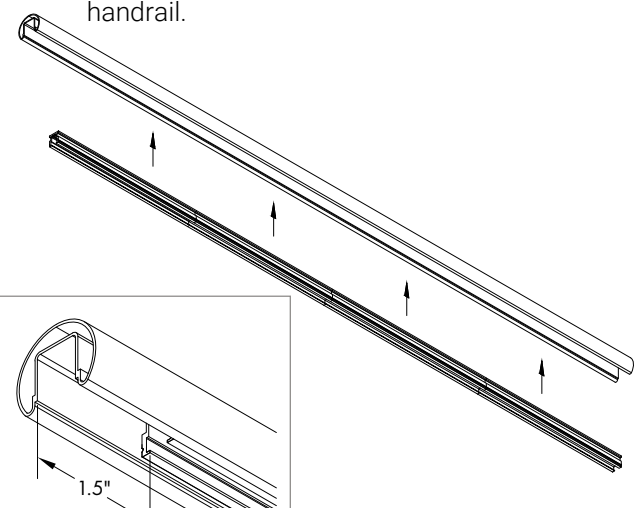
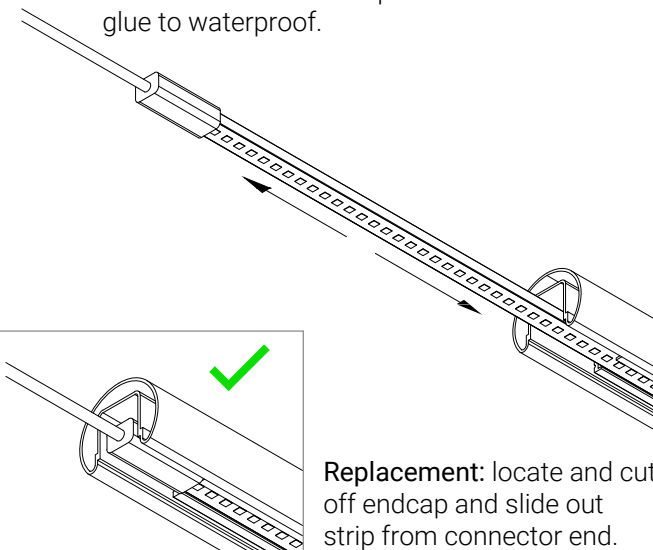
REPLACING INDIVIDUAL LIGHTING FIXTURES: (other manufacturers rails)
Where an existing illuminated railing light with individual light fixtures between posts or wall mounts is being replaced, the insert profile and strips can be cut to length and connected to existing through wiring connections.

OrgaRail Insert profiles also contain a wire-thru cavity which enable secondary low voltage wire runs to be run.

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Installation Guide

<p>1</p> <ol style="list-style-type: none"> 1. Field cut OrgaRail inserts to the match the full length of the handrail. 2. Use dowel pins to perfectly butt them up. 	<p>2</p> <ol style="list-style-type: none"> 1. Take off 3M adhesive backing on all the OrgaRail inserts. 
<p>3</p> <ol style="list-style-type: none"> 1. Leave 1.5" gap for all power feed connections and at end of run for endcap. 2. Firmly place directly in the center of the handrail. 	<p>4</p> <ol style="list-style-type: none"> 1. Slide OrgaLED strip into the OrgaRail Insert and attach endcap with silicone glue to waterproof.  <p>Replacement: locate and cut off endcap and slide out strip from connector end.</p>