

ILLUMI-GLASS®

Illuminated Glass Barrier System

24V DC



Illumi-Glass Shoerail is less than 2" wide, making it a cost effective solution that creates an elegant impression. Its minimalist design helps to keep the weight of the railing low and ideal for maneuvering on site.

FEATURES

- Heavy Duty Anodized Aluminum.
- Continuous Lighting.
- Energy Efficient and Dimmable.
- 24V OrgaLED® / Aqueon® Flat LED's Slide-Fed into Clear Tube, up to 66ft (20m).
- Easy Maintenance with Patented Slide-in Lighting Design.
- Meets all IBC Code Standards.
- ADA Compliant.
- Complete System with Starphire® Glass or Glass by Others
- Manufactured in the USA.

OPTICS

- Aqueon® Flat Available in 2200K, 2700K, 3000K, 3500K, 4000K, 5000K, Red, Green, Blue, Amber, RGB, RGBW, Pixel.
- OrgaLED Medium Output: **Power** 116.8-127 lm/ft (383-417 lm/m).
- OrgaLED High Output: **High Power** 199-216 lm/ft (651-708 lm/m).



Slide-in Patent #US-12173887-B1

Specifications may be modified or improved without notification

Organic Lighting | 12203 Magnolia Avenue, Suite 1, Riverside CA 92503 | 626.969.6140 | www.organiclighting.com | 02/2025 V5

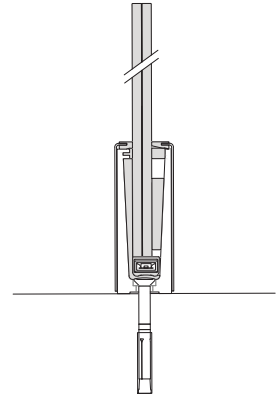
ORGANIC LIGHTING®

Project

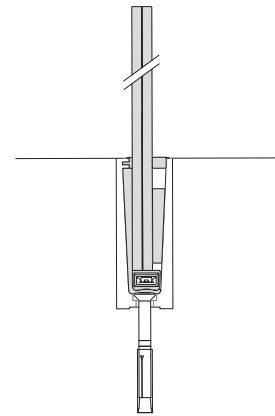
Date

MOUNT OPTIONS

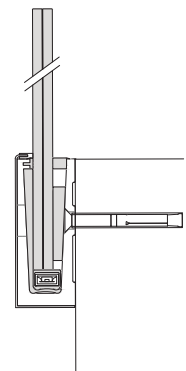
Top Mount



Recessed Mount



Fascia Mount

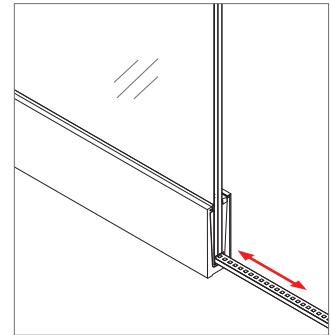


ILLUMI-GLASS® Illuminated Glass Barrier System

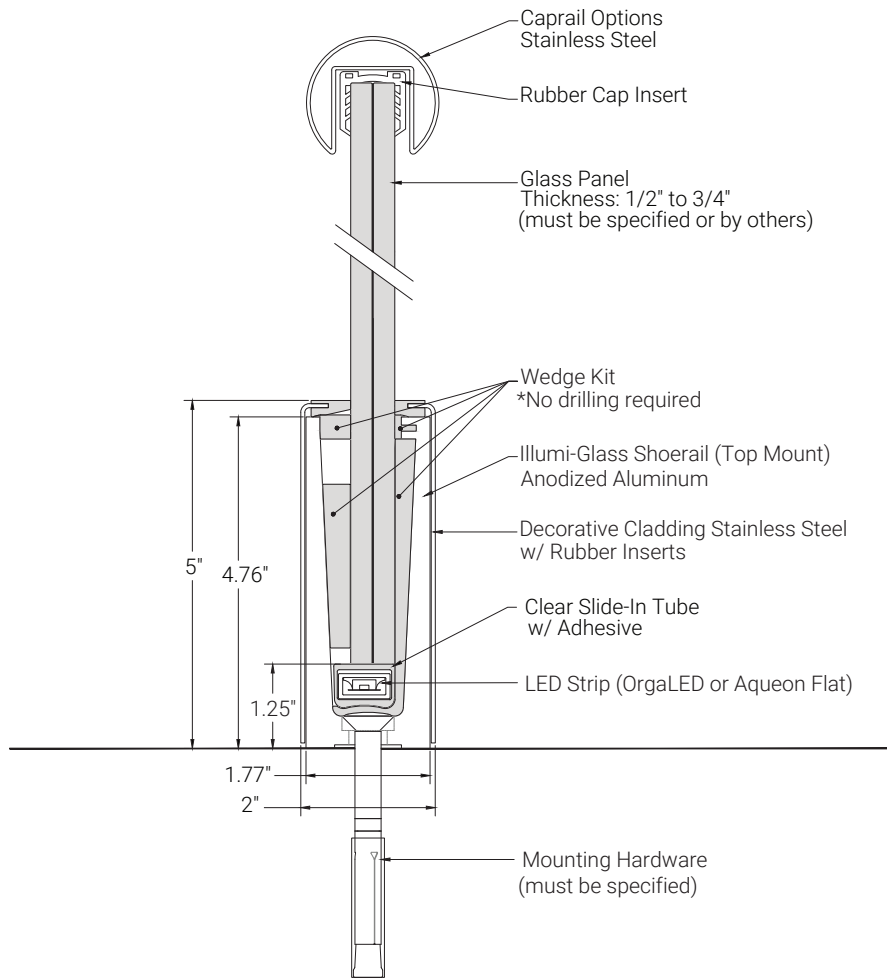
OVERVIEW

Project

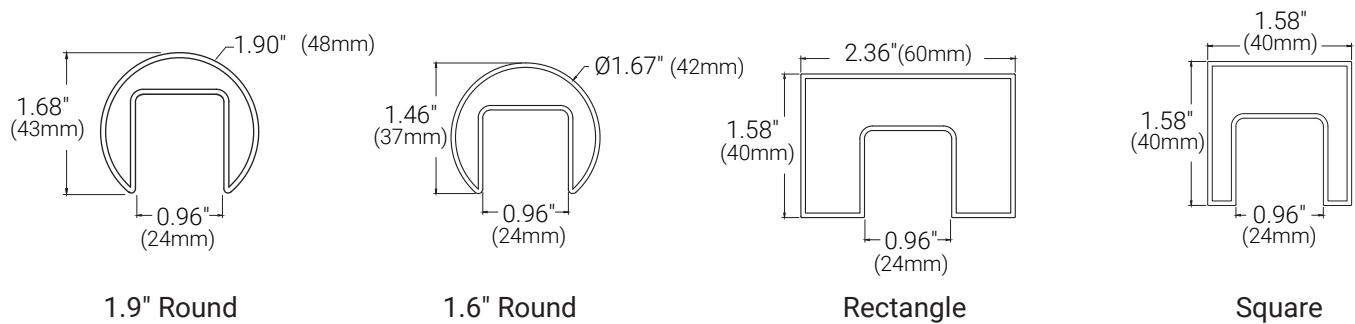
Date



Patented Slide-in Lighting makes replacing the OrgaLED strip as easy as changing a light bulb! Simply slide out the old strip and slide in the new.



CAPRAIL OPTIONS



Slide-in Patent #US-12173887-B1

Specifications may be modified or improved without notification

ILLUMI-GLASS® Illuminated Glass Barrier System

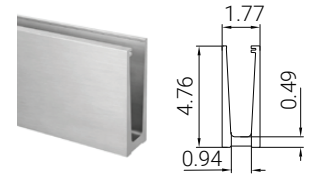
PART NUMBER & SPECIFICATIONS

Part #	Description
012900	Illumi-Glass Shoerail (Top Mount) 20'L
012900-10	Illumi-Glass Shoerail (Top Mount) 10'L
012902	Illumi-Glass (Top Mount) 90° Inner Corner
012903	Illumi-Glass (Top Mount) 90° Outer Corner
012905	Illumi-Glass Shoerail (Fascia Mount) 20'L
012905-10	Illumi-Glass Shoerail (Fascia Mount) 10'L
012907	Illumi-Glass (Fascia Mount) 90° Inner Corner
012908	Illumi-Glass (Fascia Mount) 90° Outer Corner
012909	Illumi-Glass (Fascia Mount) Blind Plug
012910	Illumi-Glass Wedge Kit 16'L for 1/2" (12mm) Glass
012911	Illumi-Glass Wedge Kit 16'L for 1/2" (12.76mm) Glass
012912	Illumi-Glass Wedge Kit 16'L for 9/16" (13.52mm) Glass
012913	Illumi-Glass Wedge Kit 16'L for 5/8" (16.76mm) Glass
012914	Illumi-Glass Wedge Kit 16'L for 11/16" (17.52mm) Glass
012915	Illumi-Glass Wedge Kit 16'L for 3/4" (19mm) Glass
012919	Illumi-Glass Intermediate Rubber 8'L
012920	Illumi-Glass (Top Mount) Frontside Cladding 16'L
012921	Illumi-Glass (Top Mount) Frontside Cladding 16'L (1/2" Glass)
012922	Illumi-Glass (Top Mount) Frontside Cladding 16'L (1/2"-9/16" Glass)
012923	Illumi-Glass (Top Mount) Frontside Cladding 16'L (5/8"-11/16" Glass)
012925	Illumi-Glass (Fascia Mount) Frontside Cladding 16'L
012930	Illumi-Glass (Top Mount) - End Cap (w/o Cladding)
012931	Illumi-Glass (Top Mount) - End Cap (w/Cladding)
012932	Illumi-Glass (Top Mount) - End Cap (For Stair)
012933L	Illumi-Glass (Fascia Mount) - Left End Cap (w/o Cladding)
012933R	Illumi-Glass (Fascia Mount) - Right End Cap (w/o Cladding)
012934L	Illumi-Glass (Fascia Mount) - Left End Cap (w/Cladding)
012934R	Illumi-Glass (Fascia Mount) - Right End Cap (w/Cladding)
012935L	Illumi-Glass (Fascia Mount) - Left End Cap (For Stair)
012935R	Illumi-Glass (Fascia Mount) - Right End Cap (For Stair)
012937	Illumi-Glass - Drainage Profile
012938	Illumi-Glass - Multitool
012939	Illumi-Glass - Welding Block
012952	Q-Spray - For Rubber Assembly
012955	Illumi-Glass - Clear Slide-In Tube 10'L

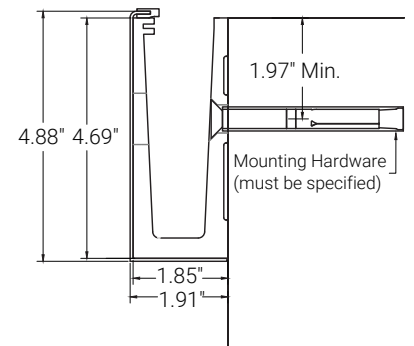
Hardware	
012942	Mechanical Anchor - 1/2x 5"L (For Concrete)
012943	Mechanical Anchor - 3/8" x 4"L (For Concrete)
012944	Mounting Anchor - M10 x 1.18"L (For Steel)
012945	Mounting Anchor - 3/8" x 4.72"L (For Wood)

Project

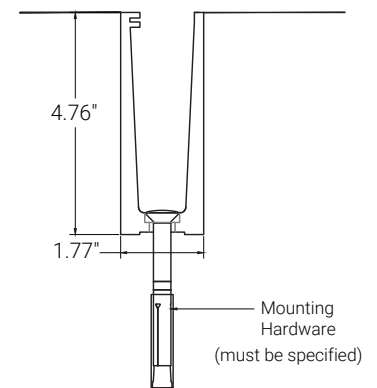
Date



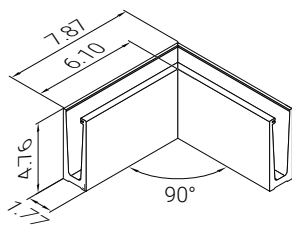
Shoerail (Top Mount)



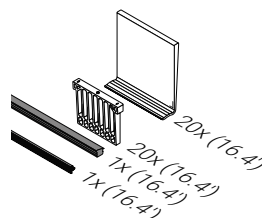
Shoerail w/ Cladding (Fascia Mount)



Shoerail (Embedded Mount)



Corner (Top Mount)



Wedge Kit

Slide-in Patent #US-12173887-B1

Specifications may be modified or improved without notification

ILLUMI-GLASS® Illuminated Glass Barrier System

LED STRIPS - 24V

Compatible with Slide-Fed Symmetric applications.

ORGALED LED

- Vertical Bending
- Cuttable every 1.96in (49.8mm)
- >1.2in (30.5mm) bending radius
- UV/IR protected PVC encapsulation
- IP40 or IP67 Wet Location
- High Density - 8 LEDs per cuttable section
- UL Listed / CE/ ROHS
- UV/IR protected PVC encapsulation
- 5 Years / 50,000 hours

AQUEON FLAT LED

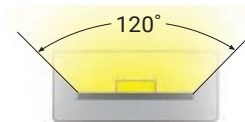
- Vertical Bending
- Cuttable every 4.9in (124.5mm)
- >1in (25.4mm) bending radius
- UV/IR protected Silicone Injection Mold
- UL Listed / CE/ ROHS
- SPI signal input, DMX512 signal compatible, DMX address programmable
- 5 years / 60,000 hrs white, 100,000 hrs color
- Ambient working temp -4°F~113°F

PART NUMBER & SPECIFICATIONS

Part #	Color	CRI	Lm/ft	Lm/m	Max Run	W/ft	W/m
OrgaLED® Power Top							
041201	2700K	>94	116.8	383.1	66ft	20m	1 3.3
041202	3000K	>94	120.1	393.9	66ft	20m	1 3.3
041203	3500K	>94	120.1	393.9	66ft	20m	1 3.3
041204	4000K	>94	127	416.6	66ft	20m	1 3.3
041205	5000K	>94	127	416.6	66ft	20m	1 3.3
OrgaLED® High Power Top							
041301	2700K	>94	198.6	651.4	66ft	20m	1.7 5.6
041302	3000K	>94	204.2	669.8	66ft	20m	1.7 5.6
041303	3500K	>94	204.2	669.8	66ft	20m	1.7 5.6
041304	4000K	>94	215.9	708.2	66ft	20m	1.7 5.6
041305	5000K	>94	215.9	708.2	66ft	20m	1.7 5.6
Aqueon® Flat Mono							
051609	2200K	>95	106.7	350	49.2ft	15m	1.83 6
051610	2700K	>95	122	400.1	49.2ft	15m	1.83 6
051611	3000K	>95	122	400.1	49.2ft	15m	1.83 6
051612	3500K	>95	137.2	450	49.2ft	15m	1.83 6
051613	4000K	>95	137.2	450	49.2ft	15m	1.83 6
051615	5700K	>95	122	400.1	49.2ft	15m	1.83 6
051614	6500K	>95	122	400.1	49.2ft	15m	1.83 6
051616	Red	>95	33.5	110	49.2ft	15m	1.22 4
051617	Green	>95	83.8	275	49.2ft	15m	1.83 6
051618	Blue	>95	16.8	55.1	49.2ft	15m	1.83 6
051619	Amber	>95	33.5	110	49.2ft	15m	1.22 4
Aqueon® Flat RGB & RGBW							
051629	RGB	>95	67	220	49.2ft	15m	1.83 6
051630	RGBW-27K	>95	67	220	49.2ft	15m	2.4 7.5
051631	RGBW-30K	>95	67	220	49.2ft	15m	2.4 7.5
051632	RGBW-40K	>95	67	220	49.2ft	15m	2.4 7.5
Aqueon® Flat RGB & RGBW-Pixel							
051645	RGB	>95	54.1	177.4	49.2ft	15m	1.83 6
051647	RGBW-27K	>95	42	137.8	49.2ft	15m	2.74 9
051649	RGBW-30K	>95	42	137.8	49.2ft	15m	2.74 9
051648	RGBW-40K	>95	42	137.8	49.2ft	15m	2.74 9

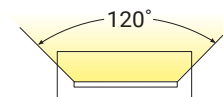
Project

Date



0.5"W x 0.25"H
(12.7mm x 6.35mm)

ORGALED LED



0.61"W x 0.24"H
(15.5mm x 6.1mm)

AQUEON FLAT LED

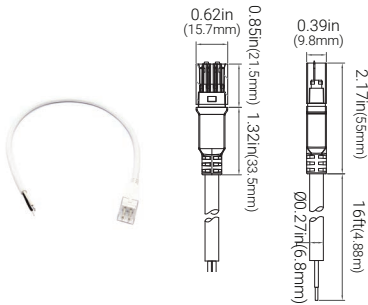
Slide-in Patent #US-12173887-B1

Specifications may be modified or improved without notification

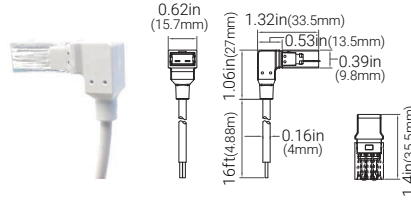
ILLUMI-GLASS® Illuminated Glass Barrier System

ACCESSORIES

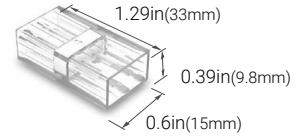
ORGALED TOP ACCESSORIES



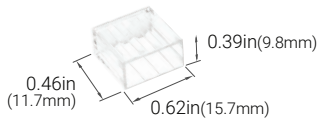
Straight Connector Cable
16ft (4.88m) | IP40 / IP67
#041002



Bottom Feed Connector Cable
16ft (4.88m) | IP40 / IP67
#041003



Inline Connector | IP40 / IP67
#041006



Top End Cap | IP40 / IP67
#041001



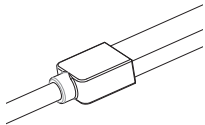
PVC IP67 Waterproofing Kit
#011511



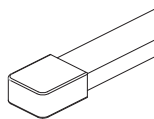
IP67 Factory Waterproofing
#011508

AQUEON FLAT ACCESSORIES

FACTORY ASSEMBLED IP67 CONNECTORS



End Connector, 16ft



End Cap

ILLUMI-GLASS® Illuminated Glass Barrier System

POWER SUPPLIES, ENCLOSURES & CONTROLLERS

Project

Date

POWER SUPPLIES - 24V

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

Part #	Ingress	Voltage	Wattage	Dimensions (inches / mm)	Description
045001	IP67	100-305V	20W	7.6 x 1.18 x 0.79 / 193 x 30 x 20	Dimmable LED Driver
045002	IP67	100-305V	40W	5.83 x 1.57 x 0.87/148 x 40 x 22	Dimmable LED Driver
045003	IP67	120-277V	60W	6.3 x 2.24 x 1.5/160 x 57 x 38	Dimmable LED Driver
045004	IP67	120-277V	75W	6.3 x 2.24 x 1.5/160 x 57 x 38	Dimmable LED Driver
045005	IP67	120-277V	96W	7.6 x 2.24 x 1.5/193 x 57 x 38	Dimmable LED Driver
045006	IP67	120-277V	200W	10.1 x 3.03 x 1.8/257 x 77 x 46	Dimmable LED Driver
045007	IP67	120-277V	300W	11.9 x 3.03 x 1.8/302 x 77 x 46	Dimmable LED Driver

20W-60W Dimmable Driver



ENCLOSURES

Part #	Ingress	Dimensions (inches / mm)	Description
045008	IP67	11.02 x 4.05 x 2.2 / 280 x 103 x 56	20W Enclosure
045009	IP67	11.02 x 4.05 x 2.2 / 280 x 103 x 56	40W Enclosure
045010	IP67	11.02 x 4.05 x 2.2 / 280 x 103 x 56	60W Enclosure
045011	IP67	11.02 x 4.05 x 2.2 / 280 x 103 x 56	75W Enclosure
045012	IP67	11.02 x 4.05 x 2.2 / 280 x 103 x 56	96W Enclosure
045013	IP67	16.7 x 9.8 x 2.3 / 424 x 249 x 58	200W Enclosure
045014	IP67	16.7 x 9.8 x 2.3 / 424 x 249 x 58	300W Enclosure

75W-300W Dimmable Driver



Digital Controller (100W, 180W, 720W)



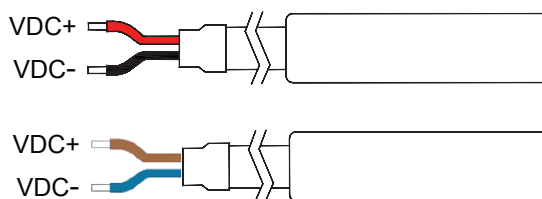
DMX CONTROLLER

Part #	Description
011343	100W Digital Controller
011344	180W Digital Controller
011345	720W Digital Controller
011341	Digital Controller & Power Supply Combination
011410	Nicolaude DE3 DMX 512 Controller
011403	Nicolaude DINA-DR1 DMX 512 Controller
050203	LT-200 SPI Controller - For Pixel
050205	DMX512 SPI Converter Decoder - For Pixel

Nicolaude DE3 DMX 512 Controller



ELECTRICAL DETAILS



CABLE REQUIREMENT

The LED strips need a minimum voltage at the beginning of the LED strip to function according to the specifications. The table below gives an indication of the maximum cable length based on the cable thickness. The standard starter cable (20 AWG) has a cable length of 16ft(4.88m).

In case the required length is longer than the length mentioned in this cable, it is recommended to cut the starter cable down to 1ft and splice a larger gauge cable. Please contact your distributor for a detailed cable calculation.

ORGALED TOP / AQUEON MONO

Cable X Information	LED Strip	Max. Cable Length
		24 V
20 AWG x 2	3.28 ft / 1m	303 ft / 92.35m
	16.4 ft / 5m	57 ft / 17.37m
	32.8 ft / 10m	36 ft / 10.98m
	49.2 ft / 15m	20 ft / 6.1m
	65.6 ft / 20m	16 ft / 4.9m
18 AWG x 2	3.28 ft / 1m	457 ft / 139.3m
	16.4 ft / 5m	86 ft / 26.21m
	32.8 ft / 10m	56 ft / 17.07m
	49.2 ft / 15m	35 ft / 10.67m
	65.6 ft / 20m	25 ft / 7.62m
16 AWG x 2	3.28 ft / 1m	914 ft / 278.6m
	16.4 ft / 5m	172 ft / 52.43m
	32.8 ft / 10m	90 ft / 27.43m
	49.2 ft / 15m	60 ft / 18.3m
	65.6 ft / 20m	40 ft / 12.2m
14 AWG x 2	3.28 ft / 1m	1521 ft / 463.6m
	16.4 ft / 5m	287 ft / 87.5m
	32.8 ft / 10m	140 ft / 42.67m
	49.2 ft / 15m	96 ft / 29.26m
	65.6 ft / 20m	70 ft / 21.34m

AQUEON RGB / RGBW

Cable X Information	LED Strip(2.29 w/ft)	Max. Cable Length
20 AWG *standard	3.28 ft / 1m	190 ft / 58m
	16.4 ft / 5m	74 ft / 23m
	32.8 ft / 10m	38 ft / 12m
	49.2 ft / 15m	26 ft / 8m
18 AWG	3.28 ft / 1m	300 ft / 91m
	16.4 ft / 5m	118 ft / 36m
	32.8 ft / 10m	60 ft / 18m
16 AWG	49.2 ft / 15m	40 ft / 12m
	3.28 ft / 1m	478 ft / 146m
	16.4 ft / 5m	186 ft / 57m
	32.8 ft / 10m	96 ft / 29m
14 AWG	49.2 ft / 15m	64 ft / 20m
	3.28 ft / 1m	760 ft / 232m
	16.4 ft / 5m	300 ft / 91m
	32.8 ft / 10m	152 ft / 46m
	49.2 ft / 15m	100 ft / 30m

AQUEON RGB / RGBW PIXEL

Cable X Information	LED Strip	Max. Cable Length
20 AWG x 2	3.28 ft / 1m	303 ft / 92.35m
	16.4 ft / 5m	57 ft / 17.37m
	32.8 ft / 10m	36 ft / 11m
18 AWG x 2	3.28 ft / 1m	457 ft / 139.3m
	16.4 ft / 5m	86 ft / 26.21m
	32.8 ft / 10m	56 ft / 17.07m
16 AWG x 2	3.28 ft / 1m	914 ft / 278.59m
	16.4 ft / 5m	172 ft / 52.43m
	32.8 ft / 10m	90 ft / 27.43m
14 AWG x 2	3.28 ft / 1m	1521 ft / 463.60
	16.4 ft / 5m	287 ft / 87.48m
	32.8 ft / 10m	140 ft / 42.67m