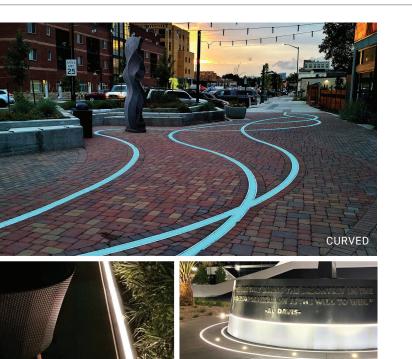
FortaCast[®] Drive-Over Inground Lighting



Overcoming the high cost and functional limitations of drive-over lighting is now easy with the FortaCast® inground polymer concrete lighting system. FortaCast[®] structural self-supporting fixtures can be installed in roadways, paths, softscape and stonework with the ease of installing pavers. Fixtures lock together to form continuous diffused illuminated straight and curved lines that can intersect seamlessly. Designs are limited only by your imagination.

FortaCast® contains Organic Lighting's Aqueon® submersible diffused IP68 LED strips that are flood and typhoon proof with up to a 60,000-hour lifetime.

AQUEON® LED Inside

STRAIGHT

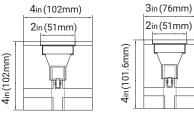
- UL Listed to 2108-submersible / IP68
- Permanent double molded connections.
- Low Energy -1.83W/ft | RGBW 2.74W/ft (6W/m | RGBW 9W/m)
- Circuit protects each LED individually
- Perfectly diffused illumination
- Continuous runs

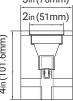
Vibration proof, and capable of withstanding the harshest environments. Aqueon[®] is a new type of flexible light. Superior standards, new materials, new methods, military grade components and advanced circuit design. Aqueon is flexible enough to slide into the FortaCast[®] from the beginning of the run where miniature rollers inside the channels guide the lighting strip to the end.

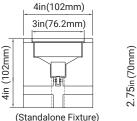
Project	
Date	

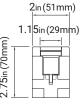
STANDARD SIZES

*Contact for Custom Shapes & Sizes.









CONSTRUCTION

Interlocking reinforced Cast Polymer concrete, with drive-over tempered glass lens system with an impact resistant anti-slip surface layer. Suitable for harsh environments. Salt water and chemical resistant

MOUNTING

Inground installation in continuous lines, or individual fixtures. Drive-over applications up to 10,000 PSI. Future proof LED arrays of up to 49ft(15m) are maintainable and replaceable from one end of the run, without removing lenses.

COLOR TEMPERATURES

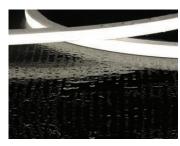
30K, 35K, 40K, 57K, Red, Blue, Green, Amber, RGB, RGBW, Tunable White; DMX programmable, Pixel controlled SPI.

ELECTRICAL

Remote 24V drivers (Dimmable 0-10V). DMX controlled RGB or RGBW. Pixel controlled SPI.



* Specifications sheets are subject to change without notification. US Patent #11,644,163B2 | international patents pending. Organic Lighting | 12203 Magnolia Ave Suite 1, Riverside, CA 92503 | 626.969.6140 | organiclighting.com | 05/2024 V55



CIRCLE



ORGANIC LIGHTING®

SPECIFYING FORTACAST DRIVE-OVER LIGHTING

Provide fully dimensional plans, DWG files and detailed drawings. Proper Installation requires coordination between the Paving Contractor and the Electrical Contractor.

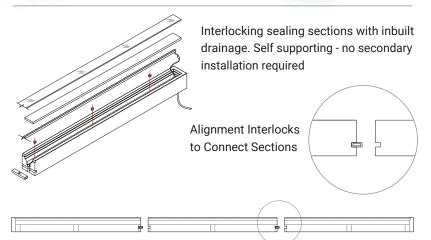
INSTALLATION

FortaCast[®] sections are set in place, connect and lock together. Numbered sections are delivered to site, ready for installation. After the first section is in place, a special sealing compound is brushed to the matching ends and the second and subsequent sections are connected. After all construction and lenses are in place, the Aqueon LED lighting is installed from one end of the run. Miniature rollers guide the LED strip to the end of the run. If choosing to stain or paint, **concrete must cure for 28 days before applying**.



Air and vapor barrier supplied for connected joints.

Primer 94 Primer 94 Promoter for Lens





FortaCast[®] installed directly on paver bedding. FortaCast[®] can also be installed in existing concrete or bituminous paving using standard paving techniques.

BLANCO SMOOTH - STANDARD



Blanco Smooth is an extra fine stock finish. Upper trim edges can be colored to match pavers with permanent finishes, which are widely available and easily applied on site during installation.

Bespoke Textures and a selection of custom concrete colors are available.

CONCRETE PAINT OPTIONS Image: Second system Image: Second system WHITE GREY BLACK CUSTOM

STEP 1 Calculate Total Run Length - Ft & in (M &mm) - CHOOSE STYLE / SIZE / CCT / FINISH

STYLE -				
STYLE	SIZE	CCT	FINISH	CUSTOM DETAILS
FS FORTACAST STRAIGHT FC FORTACAST CURVED	2x3xL 2"W x 2.75"H x L (51mm x 70mm x L) 3x4xL 3"W x 4"H x L (76mm x 101mm x L) 4x4xL 4"Wx4"H x L (101 mm x 101mm x L) CU Custom - contact	M30 30K M35 35K M40 40K M57 57K RGB RGB RGBW30 RGBW30K	WH WHITE CU CUSTOM	Provide drawings or layout concept. Full layout drawings. Engineering and design support are available on
FSF FORTACAST STANDALONE	factory with drawings 18-4 18"L(457mm) x 4"W(102mm) 42-4 42"L(1067mm) x 4"W(102mm) 78-4 78"L(1981mm) x 4"W(102mm) 22-4 22.5"L(572mm) x 4"W(102mm) 49-4 49"L(1245mm) x 4"W(102mm)	RGBW40RGBW40KTWTUNABLE WHITEPRGBRGB PIXELPRGBW30RGBW30K PIXELPRGBW40RGBW40K PIXEL		request.
FCR FORTACAST CIRCLE	 24" Dia (622mm) x 3"W(76mm) 36" Dia (927mm) x 3"W(76mm) 48" Dia (1232mm) x 3"W(76mm) 			

FortaCast®Drive-Over Inground Lighting

Aqueon Diffu	se Mono						
Color	Max Length	LEDs/ft	LEDs/m	Lm/ft	Lm/m	W/ft	W/m
3000K	49.2ft / 15m	32	105	64	210	1.83	6
3500K	49.2ft / 15m	32	105	73.2	240.2	1.83	6
4000K	49.2ft / 15m	32	105	73.2	240.2	1.83	6
5700K	49.2ft / 15m	32	105	64	210	1.83	6
Aqueon Diffu	se RGB & RGBW						
Color	Max Length	LEDs/ft	LEDs/m	Lm/ft	Lm/m	W/ft	W/m
RGB	49.2ft / 15m	22	72.2	45.7	150	1.83	6
RGBW-30K	33ft / 10.1m	25	82	74.7	245.1	2.74	9
RGBW-40K	33ft / 10.1m	25	82	74.7	245.1	2.74	9

Aqueon Diffuse Tubable White

Color	Max Length	LEDs/ft	LEDs/m	Lm/ft	Lm/m	W/ft	W/m
2200-5700K	49.2ft / 15m	44	144.4	55	180.5	1.83	6

Aqueon Diffuse Pixel RGB & RGBW - Color Chasing

Color	Max Length	LEDs/ft	LEDs/m	Lm/ft	Lm/m	W/ft	W/m
RGB	49.2ft	25	82	45.7	150	2.44	8
RGBW-30K	49.2ft	25	82	74.7	245.1	3.66	12
RGBW-40K	49.2ft	25	82	74.7	245.1	3.66	12

STEP 2 CHOOSE YOUR POWER SUPPLY

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

Enclosures

Part #	Ingress	Dimensions (inches / mm)	Description
045008	IP67	9.4 x 2.6 x 1.9 / 239 x 66 x 48	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 4.05x 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

STEP 3 CHOOSE YOUR DMX CONTROLLER (color changing only)

Part #	Description
011343	100W Digital Controller
011344	180W Digital Controller
011345	720W Digital Controller
011341	Digital Controller & Power Supply Combination
011420	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

75W Dimmable Driver



300W Dimmable Driver



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

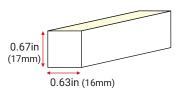


Nicolaude DE3 DMX 512 Controller



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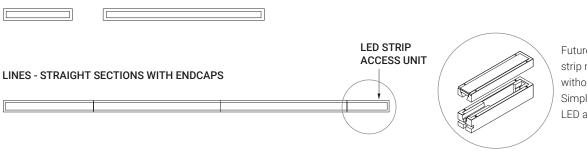


Horizontal Bending Model

FORTACAST APPLICATIONS

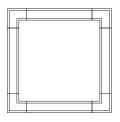
Apply FortaCast sections in limitless design possiblilties. Custom lengths and radius available.

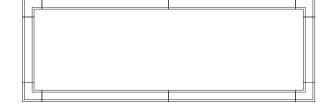
STANDALONE FIXTURES (Enclosed)



Future proof; Easy LED strip replacement without removing lenses. Simply slide out the old LED and slide in the new!

SQUARES AND RECTANGLES - STRAIGHT SECTIONS WITH JUNCTIONS

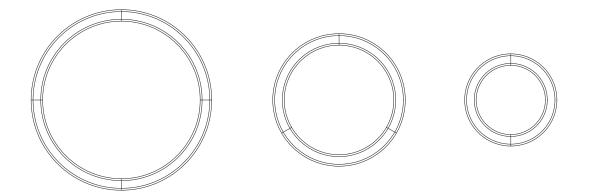




RIPPLES - CURVED SECTIONS WITH ENDCAPS Standard Radii - 72in (1829mm) / 285in (7239mm)



CIRCLES - CURVED SECTIONS

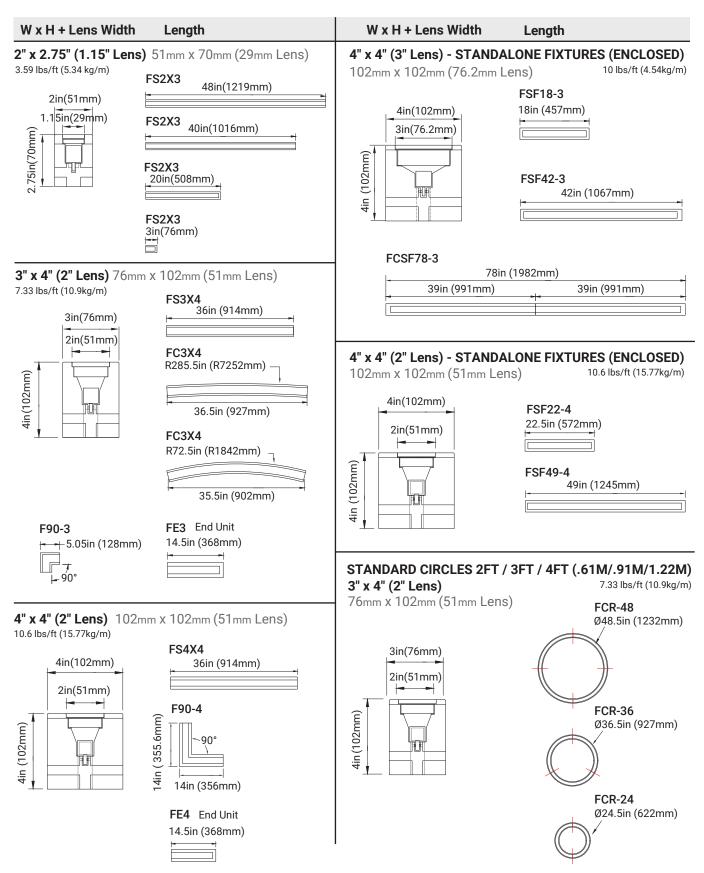


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FORTACAST STANDARD SIZES AVAILABLE



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