

GBD

APPENDIX A

# MATERIALS AND PHOTOS

*Block 37 Apartments*  
*April 29, 2014*

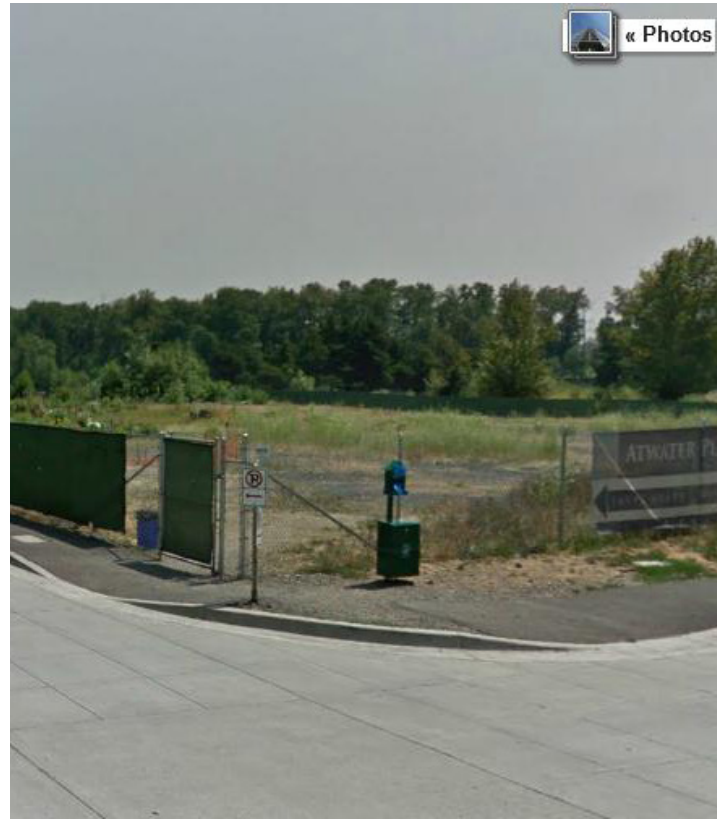


Southwest Gaines Street / Southwest River Parkway, Portland, Oregon, United States  
Address is approximate

# CONTEXT PHOTOS



## CONTEXT PHOTOS



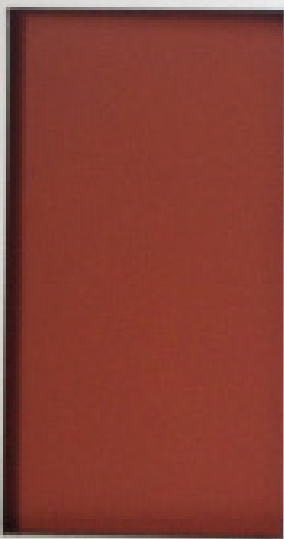
# SITE PHOTOS



Southwest Corner



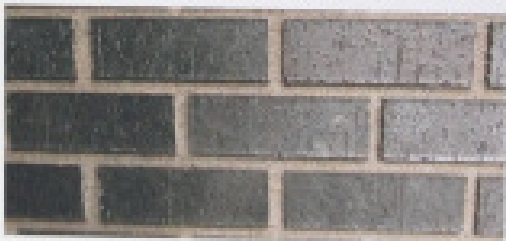
Aluminum Panels



Composite Panel



Stucco



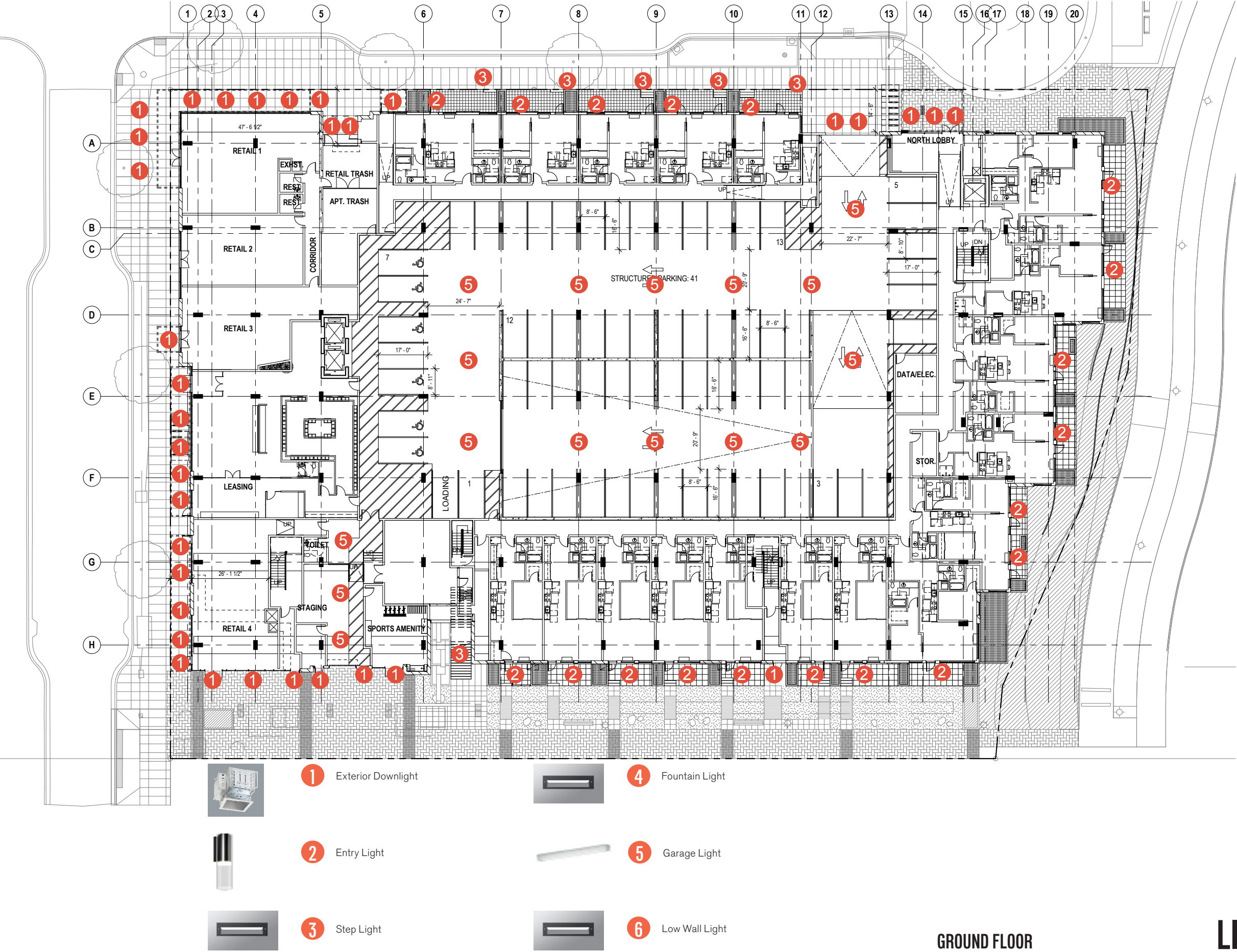
Glazed Brick

EXTERIOR FINISH PALETTE  
Block 37

GBD

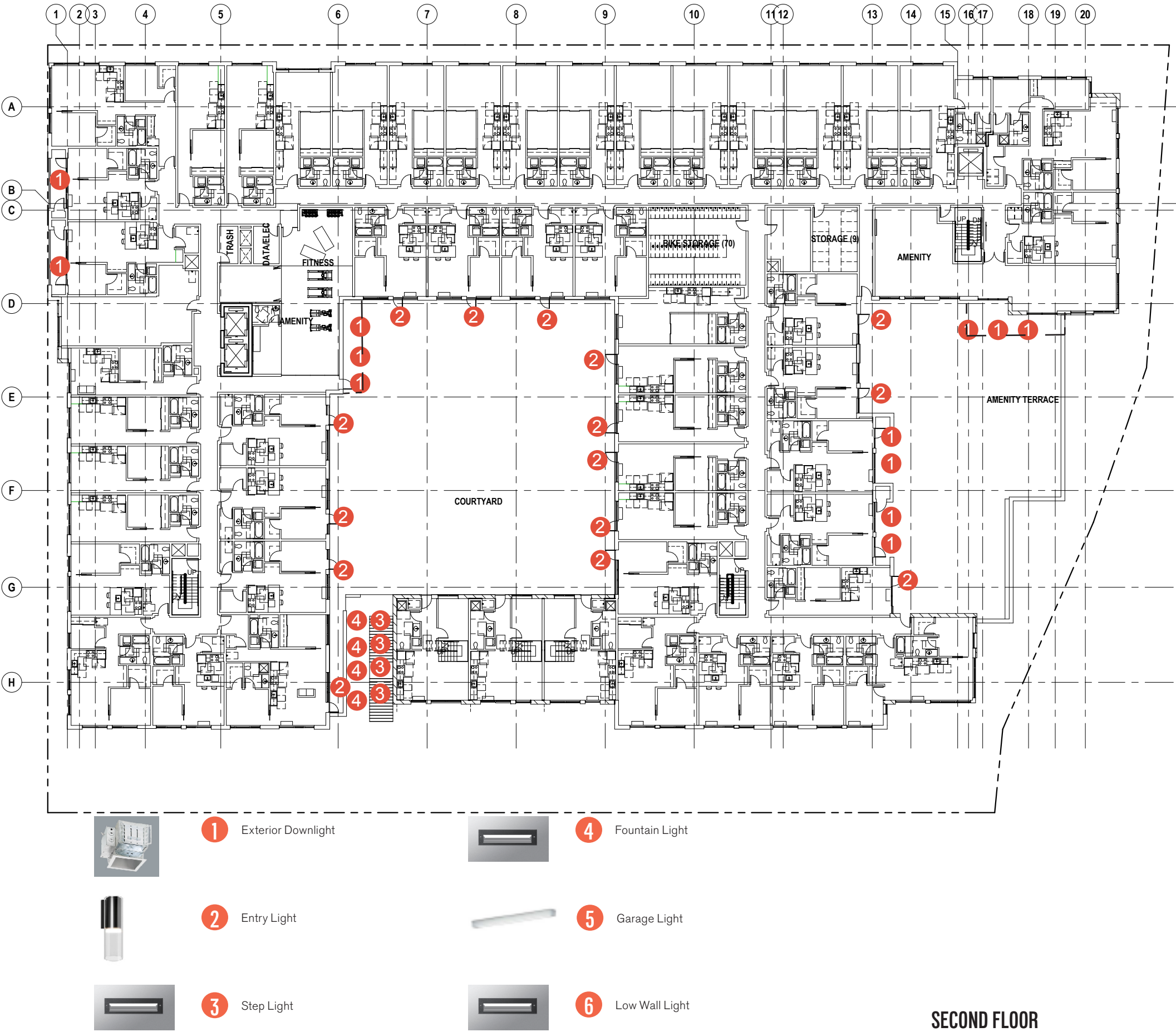
# FACADE MATERIALS

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GROUND FLOOR

LIGHTING PLAN

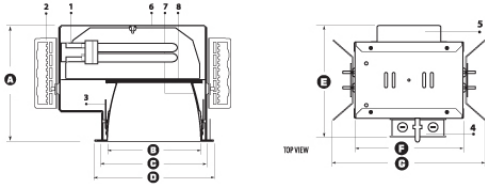


LIGHTING PLAN

# HH4SQPL

## 4" Architectural Square CFL Downlight

### Architectural



- A. Height** = 5-3/4"  
**B. Trim Aperture** = 4-1/2"  
**C. Cut-out** = 5-1/8"  
**D. Trim Outside Diameter** = 5-3/4"  
**E. Width** = 9"  
**F. Length** = 7-1/8"  
**G. Max. Length** = 10"



**Energy Star Qualified Models:**

- HH4SQPL-1X13-S-120
- HH4SQPL-1X18-S-120
- HH4SQPL-1X26-S-120

**HH4SQPL - ITEM SELECTOR:** (Please check the boxes below for the option desired)

WATTAGE	BALLAST	VOLTAGE	EMERGENCY OPTIONS	TRIM TYPE & DESCRIPTION	REFLECTOR
<input checked="" type="checkbox"/> 1X13	<input type="checkbox"/> (E) Electronic	<input type="checkbox"/> MVOLT (120/277)	<input type="checkbox"/> EMG 750 (750 Lumens) <sup>6</sup>	<input type="checkbox"/> 4601	<input type="checkbox"/> CL
<input type="checkbox"/> 1X18	<input checked="" type="checkbox"/> (S) Energy Star <sup>2</sup>	<input checked="" type="checkbox"/> 120	<input type="checkbox"/> EMG 1300 (1300 Lumens) <sup>6</sup>	<input type="checkbox"/> 4604	<input type="checkbox"/> SCH **
<input type="checkbox"/> 1X26		<input type="checkbox"/> 277	<input type="checkbox"/> INTG 750 (750 Lumens) <sup>7</sup>	<input type="checkbox"/> 4607	<input type="checkbox"/> SHZ **
<input type="checkbox"/> 1X32			<input type="checkbox"/> INTG 1300 (1300 Lumens) <sup>7</sup>	<input type="checkbox"/> 4614	<input type="checkbox"/> WT
			<input type="checkbox"/> EMG-D-750 (750 Lumens) <sup>8</sup>	<input type="checkbox"/> 4615	<input type="checkbox"/> W
			<input type="checkbox"/> ESD-130 (1300 Lumens) <sup>13</sup>		<input type="checkbox"/> MB
			<input type="checkbox"/> ICE-1300 (1300 Lumens) <sup>10</sup>		
	<b>DIMMING</b>		<b>OTHER OPTIONS</b>		
	<input type="checkbox"/> Mark 7 <sup>3</sup>		<input type="checkbox"/> FUSE <sup>11</sup>		
	<input type="checkbox"/> Mark 10 <sup>4</sup>		<input type="checkbox"/> RIF <sup>12</sup>		
	<input type="checkbox"/> Lut-E (EC3D) <sup>5</sup>		<input type="checkbox"/> BP31 (24" C-Channel Bar Hangers)		

<sup>1</sup> - (M) Magnetic = Available in 9W, 13W, 18W & 26W fixtures only • <sup>2</sup> - (S) Energy Star = Available on selected fixtures only, please see list above • <sup>3</sup> - MARK 7 = Not available in 9W, 13W, 57W, 70W • <sup>4</sup> - MARK 10 = Not available in 9W, 13W, 57W, 70W, must specify voltage • <sup>5</sup> - LUT-E (EC3D) = Not available in 9W, 13W, 57W, 70W • <sup>6</sup> - EMG = Emergency battery pack w/ remote test switch • <sup>7</sup> - INTG = Emergency battery pack w/ integral (reflector) test switch • <sup>8</sup> - EMG-D = Emergency battery pack w/ remote test switch for damp location • <sup>9</sup> - INTG-D = Emergency battery pack w/ integral(reflector) test switch for damp location • <sup>10</sup> - ICE = Emergency battery pack w/ remote test switch operating between -18°C and 55°C • <sup>11</sup> - FUSE = Single slow-blow fuse • <sup>12</sup> - RIF = Radio interference filter • <sup>13</sup> - ESD = Emergency self-diagnostic

### Specifications:

HH4SQPL    1X13    S    120    EMERGENCY    OPTIONS    TRIM TYPE    REFLECTOR    RING

Sample of Catalog Number: HH4SQPL-1X32-E-MVOLT-EMG750-4601-CL-WH



A division of  
**Elite Lighting**

Submittal form is available @ [www.maxilume.com](http://www.maxilume.com)  
Tel: 323-888-1973 • Fax: 323-888-1977

Specifications and Dimensions  
subject to change without notice.

MAX-SPEC5 2011-03-08

REFLECTOR	RING
CL Clear	WH Self-Flange White
SHZ Satin Haze (Low Iridescent)	Standard on all trims
WT Wheat	
MB Black	
W White	

\*For custom  
diffuse, reflector,  
trim ring, glass  
color and lens  
options, please  
consult factory.

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# EXTERIOR DOWNLIGHT

# F+P Wall LED

F-P WALL LED

## PRODUCT SPECIFICATION

### Product description

Weblink: 2720

Design: Foster &amp; Partners

Light Concept: The fixture emits a symmetrical downlight. The opal cone ensures an even and diffuse light, free from obtrusive glare. The light emitted through the cone helps reducing the contrasts. The polished edges of the cylinder glow and hence clarify the shape of the fixture.

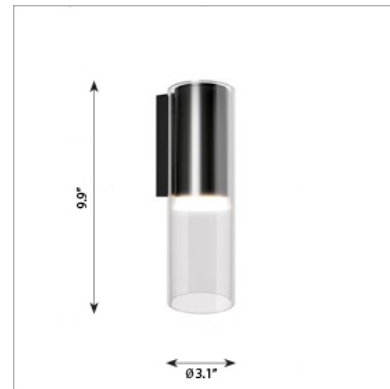
Finish: White, natural painted aluminum or graphite grey, powder coated.

Material: Housing: Die cast aluminum. Enclosure: Extruded clear acrylic with polished edges.

Mounting: Surface: Mounted directly to finished surface over a recessed 4" octagonal junction box.

Weight: Max. 2 lbs.

Label: cULus, Wet location. IBEW.



Product code	Light source	Voltage	Finish
F+P-W	7W LED/3000K 7W LED/4000K	120V	GRAPH NAT PAINT ALU WHT

a. Provided with one 120V integral electronic driver.  
b. All LED wattages are system power.

I. The comparable EU version has the following classification: Ingress Protection Code: IP44.  
II. LED technology is rapidly changing. Specifications are based on present technology. For most up to date specifications see [www.louispoulsen.com](http://www.louispoulsen.com).



Louis Poulsen Lighting | 3260 Meridian Parkway | Fort Lauderdale | FL 33331 | PH: 954-349-2525 | Fax: 954-349-2550 | [louispoulsen.com](http://louispoulsen.com)

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## 2 ENTRY LIGHT, OPTION 1

LU 14-117884 EXHIBIT A.9

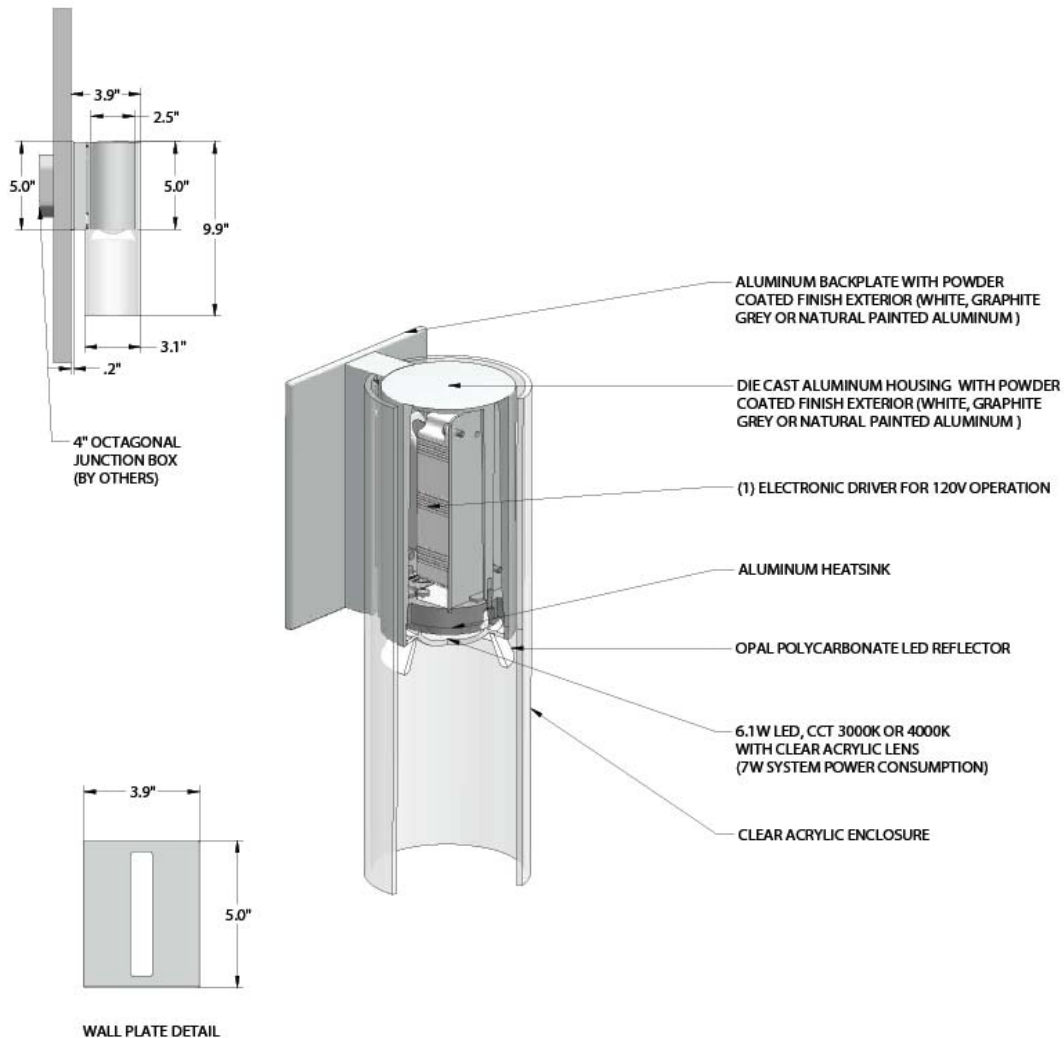
# F+P Wall LED

F-P WALL LED

PRODUCT SPECIFICATION

## Material description

**NOTES:**  
LED TECHNOLOGY IS RAPIDLY CHANGING. LEDS ARE MADE IN LOTS AND SORTED INTO BINS BASED ON WAVELENGTHS RANGES THAT ACHIEVE COLORS. PRODUCTS ORDERED AT DIFFERENT TIMES MAY NOT HAVE THE SAME COLOR APPEARANCE



**louis  
poulsen**

Louis Poulsen Lighting | 3260 Meridian Parkway | Fort Lauderdale | FL 33331 | PH:954-349-2525 | Fax: 954-349-2550 | louis@poulsen.com

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## 2 ENTRY LIGHT, OPTION 1

# F+P Wall LED

F-P WALL LED

PRODUCT SPECIFICATION

## Light measurements

Photometric Report: F&amp;P WALL LED L7713A,IES

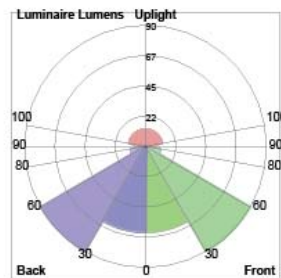
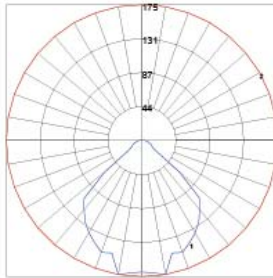
Report No.: L7713A

Poulsen Report No.: F&amp;P WALL LED L7713A

Luminaire: F&amp;P WALL

Lamp: 7W LED

Description: All data shown are per 352 lumens. This report can be used for calculation on all versions listed below. Use only actual lumen data calculating.



Candlepower Distribution	
Vertical Angle	Candela
0	168.7
5	170.6
10	174.5
25	144.7
40	115.8
55	10.2
70	11.4
85	4.9
90	3.8
120	2.8
150	1.5
180	0.4

### LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	63.7	18.1	18.1
FM - Front-Medium (30-60)	90.0	25.6	25.6
FH - Front-High (60-80)	11.3	3.2	3.2
FVH - Front-Very High (80-90)	2.8	0.8	0.8
BL - Back-Low (0-30)	63.7	18.1	18.1
BM - Back-Medium (30-60)	90.0	25.6	25.6
BH - Back-High (60-80)	11.3	3.2	3.2
BVH - Back-Very High (80-90)	2.8	0.8	0.8
UL - Uplight-Low (90-100)	3.9	1.1	1.1
UH - Uplight-High (100-180)	12.5	3.5	3.5
Total	352.0	100.0	100.0
BUG Rating	B0-U2-G0		



Louis Poulsen Lighting | 3260 Meridian Parkway | Fort Lauderdale | FL 33331 | PH:954-349-2525 | Fax: 954-349-2550 | louis Poulsen.com

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## 2 ENTRY LIGHT, OPTION 1

LU 14-117884 EXHIBIT A.11



Job :

Project

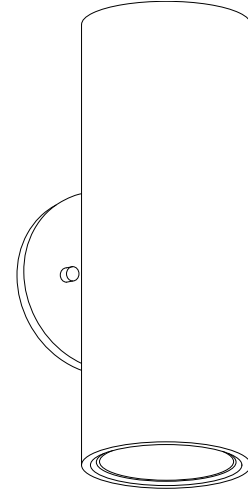
Type :

Part # :

# CORE 300 LX scone up + down

## Specifications

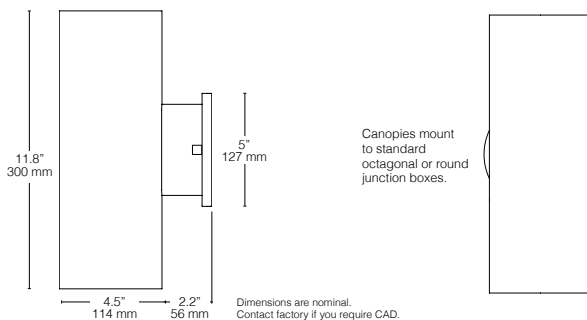
Source	Two Xicato XSM modules - 400, 700, 1000, or 1300 lumens each
C.C.T.	2700K, 3000K, 3500K or 4000K
Color Consistency	CCT +/- 50K, Duv +/- .001, 1x2 step MacAdam (1 x 2 SDCM) along BBL
CRI (Ra)	≥80 or ≥ 95
CRI Consistency	+3/-0 points
LED Driver	Remote mount
Power	14 to 40 watts max, depending on LED module combination / driver
Reflector	High efficiency 20°, 20°, 40° or 60° - field replaceable without tools
Material	CNC machined aluminum with stainless steel hardware
Finish	Powder coat - TGIC polyester for exterior and interior use
Weight	5 lb. [2.3 kg]
Location	Listed for Wet Locations, IP66
Approvals	ETL listed. Conforms to UL Standards 2108, 8750 and CSA C22.2#250.0
L70 Life	> 50,000 hours at 70% lumen maintenance based on IESNA LM-80-08
Warranty	Lifetime Limited Warranty - see warranty for details
IES Files	LM-79-08 IES files available at <a href="http://www.v2LightingGroup.com">www.v2LightingGroup.com</a>
Modifications	Any modification or customization is possible - consult factory



## Ordering Logic

UP Direction					DOWN Direction					LX	Shell Color
Model	Dimming	Output	CRI	C.C.T.	Reflector	Output	CRI	C.C.T.	Reflector		
VC3S										LX	
VC3S	N = None P = Phase V = 0-10V	04 = 400 lm 07 = 700 lm 10 = 1000 lm 13 = 1300 lm	80 = Ra≥80 95 = Ra≥95	27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K	2H = 20° high efficiency 20 = 20° 40 = 40° 60 = 60° BF = Baffle	04 = 400 lm 07 = 700 lm 10 = 1000 lm 13 = 1300 lm	80 = Ra≥80 95 = Ra≥95	27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K	2H = 20° high efficiency 20 = 20° 40 = 40° 60 = 60° BF = Baffle		
	see page 2		see page 2		see page 3		see page 2		see page 3		see page 4

## Dimensions


[www.v2LightingGroup.com](http://www.v2LightingGroup.com)

rev130224 © 2013 v2 Lighting Group, Inc. Specifications subject to change without notice. Page 1

# 2 ENTRY LIGHT, OPTION 2

Job : Project

Type : \_\_\_\_\_

Part # : \_\_\_\_\_

## CORE 300 LX sconce up + down

### LED Options

Use the chart below to select an LED.

Use the resulting 6-number order code in the Output, CRI and CCT boxes in the "Ordering Logic" section on Page 1.

LED Specifications			Order Codes				Dimming Options		
Lumens	CRI	Wattage*	2700 K	3000 K	3500 K	4000 K	non-dim	phase / triac	0-10V
400	≥80	5.7	04 80 27	04 80 30	n/a	04 80 40	✓	✓	✓
700		9.7	07 80 27	07 80 30	n/a	07 80 40	✓	✓	✓
1000		13.0	10 80 27	10 80 30	10 80 35	10 80 40	✓	✓	✓
1300		17.8	13 80 27	13 80 30	13 80 35	13 80 40	✓	✓	✓
700	≥95	13.4	07 95 27	07 95 30	n/a	07 95 40	✓	✓	✓

\*add 14% for total fixture wattage including LED Driver

Higher lumen options are available in CORE 400 series.

Recessed wall luminaires with directed light

**Housing:** Constructed of die-cast and aluminum with integral wiring compartment. Mounting tabs provided.

**Enclosure:** One piece die-cast aluminum faceplate. Clear tempered glass; .125" thick, machined flush to faceplate surface. Faceplate is secured by two (2) flush, socket head, stainless steel captive screws threaded into stainless steel inserts in the housing casting. Continuous high temperature, molded silicone rubber gasket for weather tight operation.

**Electrical:** 11.2 W LED luminaire, 14.5 total system watts, -30°C start temperature. Integral 120V-277 V electronic LED driver, 0 -10 V dimming. The LED and driver are mounted on a removable plate for easy replacement. Standard LED color temperature is 3000K (available in 4000K; add suffix K4).

**Note:** Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to [www.bega-us.com](http://www.bega-us.com).

**Finish:** Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

UL listed, suitable for wet locations and for installation within 3 feet of ground. IC rated. Protection class: IP65.

**Luminaire Lumens:** 342  
Tested in accordance with LM-79-08

Type:  
BEGA Product:  
Project:  
Voltage:  
Color:  
Options:  
Modified:



	Lamp	A	B	C
2384 LED	ADA 11.2 W LED	12½	2¾	2½



**BEGA-US** 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 FAX (805) 566-9474 [www.bega-us.com](http://www.bega-us.com)  
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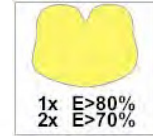
# Specialized Lighting Solutions, Inc.

## LINDA TRANSPARENT DIRECT-INDIRECT DISTRIBUTION

**LINDA TRANSPARENT:** For use in car-parks or environments where indirect ceiling and diffused direct lighting is required to supply uniform illumination.

### MECHANICAL CHARACTERISTICS:

- **Transparent** housing in self-extinguishing injection molded UV stabilized Polycarbonate.
- **Gasket** :Molded one piece injected long life sealing foam gasket provides.
- **IP65** watertight seal.
- **Diffuser:** **Transparent** Self-extinguishing injection molded polycarbonate, UV stabilized, with smooth external surface and differentiated prismatic internal surface.
- **Gear-tray reflector unit:** reduced width for a greater indirect distribution, in hot galvanized steel, painted in white polyester, fixed to the housing by means of snap-lock devices in steel. Hinged opening for simple maintenance and installation.
- **Snug fit snap-lock clips**, in **stainless steel**, for diffuser's mounting, vandal-proof opening.



### Installation:

**Linda** offers **quick** and **safe** installation with various types of fixings. The Luminaries are supplied with two types of mounting devices:



#### Ceiling:

Provided with Pair of metal brackets supplied for quick installation.



#### Suspended:

Hook or chain mounting. Provided with a Pair of steel springs supplied for quick install

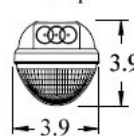


### Features:

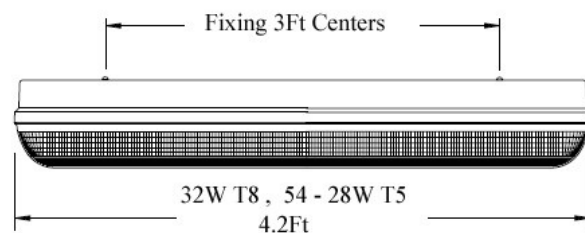
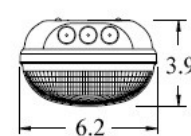
#### REFLECTORS

A selection of optional easy to install reflectors for a variety of applications. (See pages 3-4).

1 Lamp



2 Lamp



### ORDERING DETAILS: (DESCRIPTION)

3F LINDA TRANSPARENT 1x32 T8  
3F LINDA TRANSPARENT 2x32 T8  
3F LINDA TRANSPARENT 1x28 T5  
3F LINDA TRANSPARENT 2x28 T5  
3F LINDA TRANSPARENT 1x54 T5  
3F LINDA TRANSPARENT 2x54 T5

### ORDERING NUMBER

SLS-LTR-1x32W-T8-xx  
SLS-LTR-2x32W-T8-xx  
SLS-LTR-1x28W-T5-xx  
SLS-LTR-2x28W-T5-xx  
SLS-LTR-1x54W-T5-xx  
SLS-LTR-2x54W-T5-xx

### OPTIONS

EBP-Emergency Battery Pack (Consult Factory)  
Reflector Options:  
(16MRA, 16RTA, 16NBH, 16FGP, 16REC, 16TLS,  
16QST, 16THO, 16UCL, 16GDM, 16ZOQ, 16NQE)

[www.slsnw.com](http://www.slsnw.com)

640 NW Silverado Drive, Beaverton OR 97006 Tel: 503-530-8908 Fax: 503-531-0711



## Specialized Lighting Solutions, Inc.

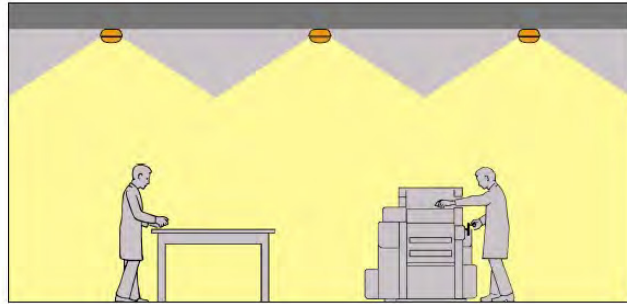
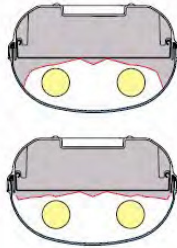
### LINDA TRANSPARENT DIRECT-INDIRECT DISTRIBUTION

#### Reflector Accessories

By using **Parabolic Asymmetric Reflector** in high-reflectance aluminum for T8 lamps and for T5 lamps, the luminaires' luminous efficiency is increased thus optimizing illumination in the **usable working area** and allowing a consequent saving in energy and operating costs.

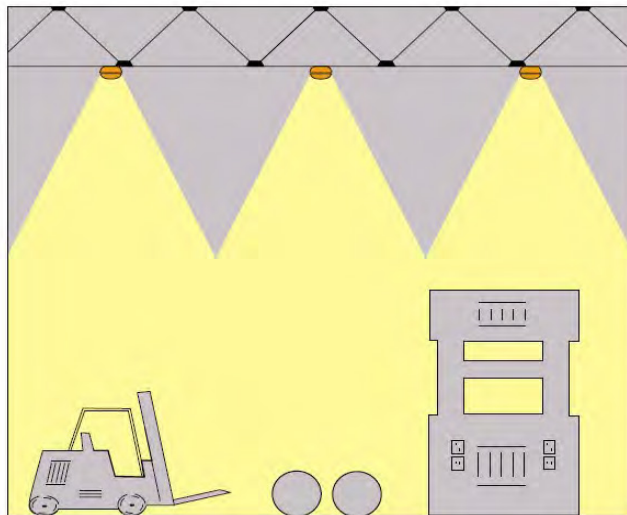
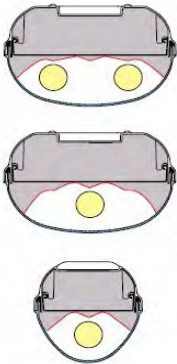
#### Wide reflectors

Application in rooms with **height range from 9 to 18 feet**.



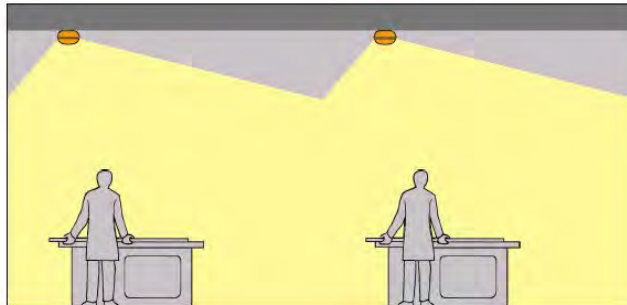
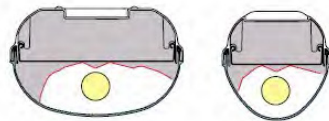
#### Concentrated reflectors

Application in rooms with height **exceeding 12 feet** or where **higher quality illumination** is required.



#### Asymmetric reflectors

Application in rooms where there is a need for **precise focusing of the luminous flow** on the working area.



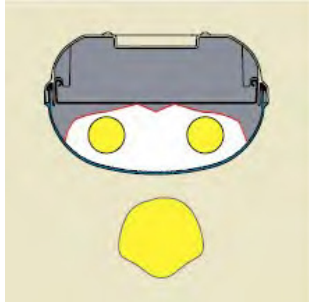
[www.slsnw.com](http://www.slsnw.com)

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# Specialized Lighting Solutions, Inc.

## LINDA TRANSPARENT DIRECT-INDIRECT DISTRIBUTION



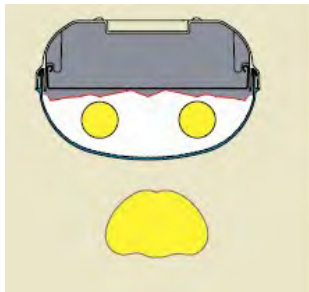
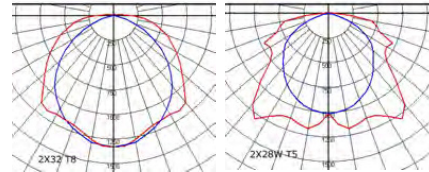
Parabolic flow reflector **wide** direct distribution, for luminaires 6 inches wide.

Luminaire	Reflector Code
2x32 T8	16 MRA
2x28 T5HE	16 RTA
2X54 T5HO	16 RTA

IES File No.

5020166 - 3F Linda 2x32+16MRA

5020666 - 3F Linda 2x28 T5 HF+16RTA



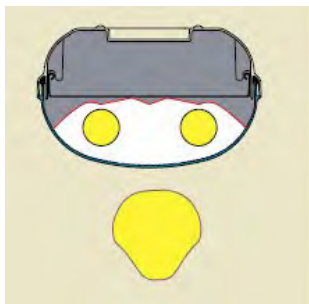
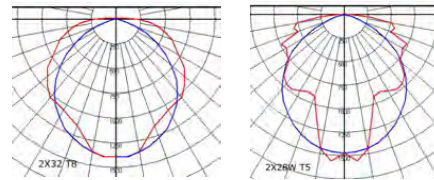
Parabolic flow reflector **super-wide** direct distribution, for luminaires 6 inches wide.

Luminaire	Reflector Code
2x32 T8	16 NBH
2x28 T5HE	16 FGP
2X54 T5HO	16 FGP

IES File No.

- 3F Linda 2x32+16NBH

- 3F Linda 2x28 T5 HF+16FGP



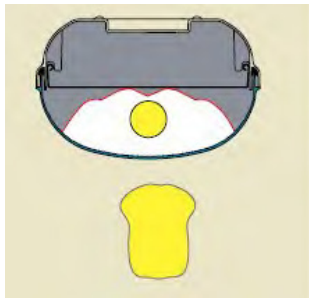
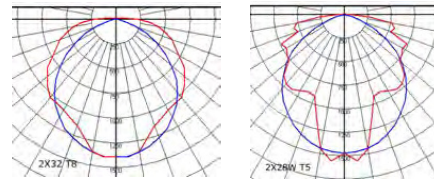
Parabolic flow reflector **concentrated** direct distribution, for luminaires 6 inches wide.

Luminaire	Reflector Code
2x32 T8	16 REC
2x28 T5HE	16 TLS
2X54 T5HO	16 TLS

IES File No.

5010165 - 3F Linda 2x32+16REC

5020667 - 3F Linda 2x28 T5 HF+16TLS



Parabolic flow reflector **concentrated** direct distribution, for luminaires 6 inches wide.

Luminaire	Reflector Code
1x32 T8	16 QST
1X54 T5HO	16 QST

IES File No.

- 3F Linda 1x32+16QST

[www.slsnw.com](http://www.slsnw.com)

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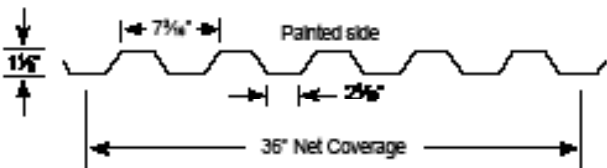
# Reversed HR-36® Wall



Reversed HR-36 is an economical, structural, exposed-fastener wall panel suitable for general usage.



Reversed HR-36 Wall (typical wall applications)



Properties									Standard Finishes	
Gauge	Base Steel Thickness (in)	Yield (ksi)	Tensile (ksi)	WT. (lbs/ft <sup>2</sup> )	I+ (in <sup>4</sup> /ft)	S+ (in <sup>3</sup> /ft)	I- (in <sup>4</sup> /ft)	S- (in <sup>3</sup> /ft)	Metallic Coating	Paint System
29	0.0139	80	82	0.75	0.0554	0.0406	0.0579	0.0483	AZ50	ColorGuard™ xt
26	0.0173	80	82	0.95	0.0707	0.0538	0.0736	0.0642	AZ50	Cool Dura Tech® nt
24	0.0232	50	65	1.25	0.1127	0.1121	0.1131	0.1239	AZ50	Cool Dura Tech® 5000 (polyvinylidene fluoride) or Dura Tech mx (metallic polyvinylidene)
22	0.0294	50	65	1.57	0.1467	0.1544	0.1467	0.1686	AZ50	
20	0.0354	40	55	1.92	0.1867	0.2076	0.1844	0.2263	G90	
18	0.0459	40	55	2.46	0.2500	0.2947	0.2456	0.3107	G90	

NOTES: The moments of Inertia, I+ and I-, presented for determining deflection are:  $(2I_{\text{Stiffness}} + I_{\text{Gross}}) / 3$

## standard features

- Custom manufactured sheet lengths from 5'-0" to 45'-0"
- Available in 28ga, 26ga, 24ga and 22ga in standard finishes – refer to AEP Span Color Charts for full range of color options and paint systems.
- 20ga available in Base Zincalume® plus.
- Zincalume coated substrate, per ASTM A-792, is standard and backed by a corrosion warranty on painted or unpainted panels.
- Meets IBC requirements for wall and roof panels in accordance to Chapters 14 & 15.
- All colors meet a minimum SRI of 28 and one color, Regal White has a SRI of 85.

## optional features

- Short cut sheets from 5'-0" to 1'-0". Additional fees and lead times may apply.
- 20ga available in standard colors subject to a minimum order size of 4,500 square feet and longer lead times.
- 18ga available in bare G-60 galvanized and standard colors subject to a minimum order size of 4,500 square feet and longer lead times.
- Custom colors, thick film primer and/or clear coat paint finishes available. Subject to 4,500 square feet minimum order."
- Perforation options available for an additional charge. Minimum order size 1,500 sq feet. Select from standard perforation patterns with open areas of 7.8%, 13.8%, 23.4%, 30.8% or 41.4%."
- Stucco embossed available on 28ga, 26ga, 24ga and 22ga. Subject to min. order size of 1,500 square feet.

\* Inquire with AEP Span representative regarding premium Vinlage® and Dura Tech® Dimensional Prints availability.

# MECHANICAL EQUIPMENT SCREEN



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Davis Door Service is an extended family of professional men and women dedicated to providing quality, **commercial** overhead and **commercial** pedestrian door sales, installation, maintenance, and repair. Since 1959, we have provided the Pacific Northwest with responsive service and quality products at a fair price and honest value  
... satisfaction guaranteed.

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... satisfaction guaranteed.

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# GARAGE DOOR

LU 14-117884 EXHIBIT A.19



## DERO ULTRA SPACE SAVER

- Maximum bike parking capacity
- User-friendly, vertical storage
- U-lock compatible with nearly any bike

The Dero Ultra Space Saver is extremely user-friendly and allows easy access to bikes. It provides convenient and ample space for u-lock security on nearly any bike, including bikes with fenders and fork shocks. Thanks to design enhancements, the double-sided Dero Ultra Space Saver parks more than double the capacity of a standard bike rack.

The Dero Ultra Space Saver is an easy to install, modular system. It can be made to fit in nearly any space. Options include wall-mount, floor-mount, and double-sided. Call Dero for a FREE custom room layout.



 [www.dero.com](http://www.dero.com)  1-800-397-6723



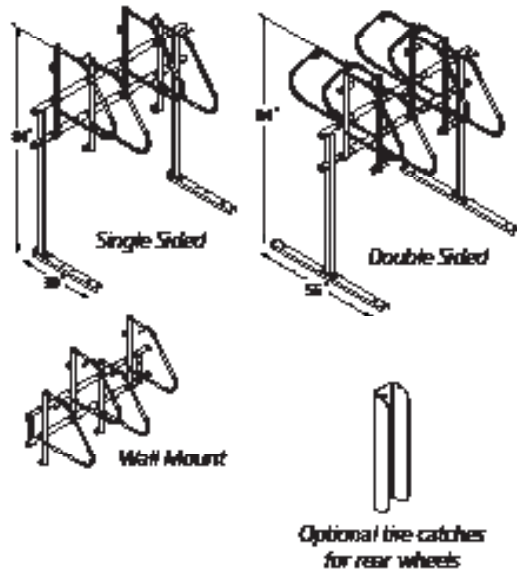
 100% recycled paper

# BIKE RACK



# ULTRA SPACE SAVER

## Specifications and Space Use



### Product

Dero Ultra Space Saver  
As manufactured by Dero Bike Racks

### Capacity

Modular construction  
1 Bike per arm



Hanger is 1" diameter tube with 1/2" steel rod and retaining disk at each end.  
Upright is 2" square tube.  
Feet are AISI C3 x 4.1 galvanized steel channel.  
Crossbars are 1.25" sched. 40 galvanized pipe (1.860" OD).  
Spacers are 2.375" OD plastic tubes with .218" wall thickness.

### Finishes



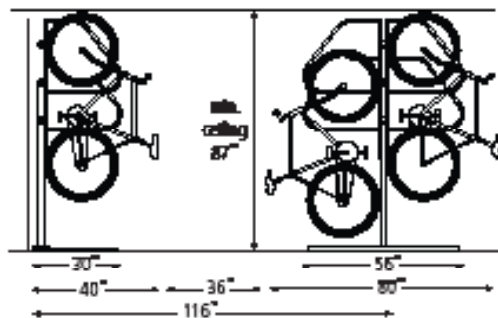
Black powder coat  
Cross bars: hot dipped galvanized  
Hanger rods: rubber coated  
Spacers: plastic



Floor mounted Ultra Space Savers have steel channel feet (30" for single sided and 56" for double sided units) which must be anchored to the floor. A wall mounted unit which contains special brackets is also available.



See diagram at left



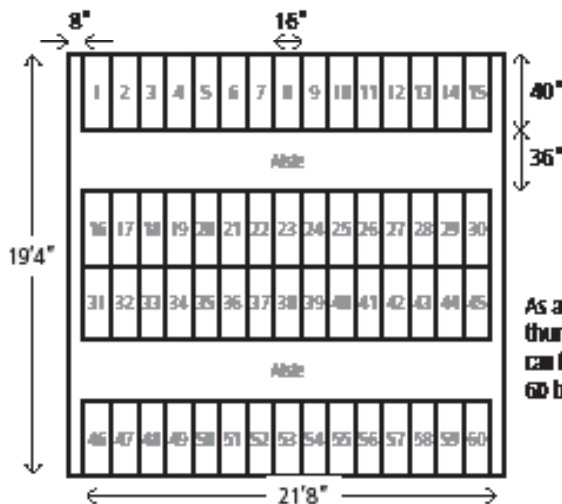
### Estimating Your Bike Capacity

Estimating the maximum number of bikes you can park using an Ultra Space Saver in a typical rectangular space is usually fairly straightforward.

The Ultra Space Saver parks one bike every 16" with a typical bike extending out 40" from the wall. Leave a 36" aisle between rows. Add an 8" buffer on each end of a run to allow enough space for handlebars.

If you have a large space, you may be able to fit in double rows of Ultra Space Savers.

Let us Help! As a free service, Dero will provide a complete CAD layout of your space. Just send us the dimensions of your room, being sure to note the location of doors, columns, etc. and let us maximize your bike storage capacity.



As a general rule of thumb, this space can fit approximately 60 bicycles.




[www.dero.com](http://www.dero.com) 1-800-957-6788

# BIKE RACK

## DESIGN STANDARDS

### PUBLIC RIGHT-OF-WAY PERFORMANCE CRITERIA AND STANDARDS

ELEMENTS	CRITERIA AND STANDARDS	
<b>Public Art</b>	Include artists in projects at the onset utilizing the City's 2 percent for art program. Consult with the Regional Arts and Culture Council (RACC) to integrate works of art into the public right-of-way. Potential sites or projects might include portal and gateway design, pedestrian streets, special intersections and accessways, special streetscape features and design near neighborhood parks, street furnishings, traffic circles, bollards, street signs, inlays, stormwater features, and manhole covers.	
 <b>Street Furniture</b>	The intent is to have consistency of standards throughout the entire district for all street furniture. Maintenance of these furniture amenities (benches, trash receptacles, banners, bollards, etc.) would be required of the adjacent property owner.	
	Benches	Landscape Forms "Austin" series or approved equal. Subject to revocable permit review.
	Trash Receptacles	Landscape Forms "Austin" series or approved equal. Subject to revocable permit review.
	Street Name Signs	Street name signs are to be specific to the South Waterfront District in color and shape. The sign panel is to be a truncated ellipse (curved at top and bottom, straight on each end) no more than 7'-0" in length, either flag mounted or mounted to the mast arm at a location nearest the vertical pole. The background is to be charcoal grey, the text is to be white. Text sizes and layouts are to follow the City of Portland standards.
	Banners	As approved by Signals/Street Lighting Division of the City of Portland's Bureau of Transportation System Management.
	Bollards	Standard Precast Bollard: Architectural Area Lighting (AAL) #CB18R-36 with cutoff grill, flat top and metal halide lamp.
	Paint Color	Black, Wasser Code: W21.79 or approved equal <ul style="list-style-type: none"> <li>• Traffic signal poles</li> <li>• Street light poles</li> <li>• Streetcar strain poles</li> <li>• Bus shelters</li> <li>• Benches</li> <li>• Bollards (if painted)</li> </ul>
<b>Constructability and Maintenance</b>	Align paving patterns that allow ease of access and minimize sawcuts necessary for utilities, maintenance and repairs.	

## SITE FURNISHINGS



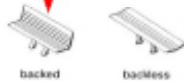
## SITE FURNISHINGS

## Austin™ Specifications

## Seat

Austin benches are available in backed or backless, and in a selection of interior and exterior woods, as well as aluminum extruded boards. Unique cantilever style or freestanding/surface mount supports are cast iron.

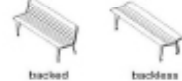
## Cantilever



backed  
24" x 33" x 72"

backless  
22" x 18" x 72"

## Freestanding/Surface Mount



backed  
24" x 33" x 72"

backless  
22" x 18" x 72"

detail

## Arm Options

Optional arms may be added to both ends, as well as the center position. Arms are available for either backed or backless benches. All arms are cast aluminum and attached to the seat boards.



center position

end arms

## Mounting Options

Austin benches with freestanding/surface mount supports ship with glides which may be removed for surface mounting. All cantilever supports must be surface mounted into concrete.



cantilever  
surface mount

surface mount

freestanding



## Sense of Place

We believe in the power of design and its ability to elevate public spaces. Landscape Forms provides great design, integrated product collections, and leading edge technology for creating a sense of place in outdoor environments.

## Finishes

Interior woods are finished with Landscape Forms' exclusive LF-80 wood finish, a clear, catalyzed acrylic catalyzed acrylic lacquer. Special stain may be specified for an upcharge.

Exterior woods are unfinished and will weather to a soft pewter gray, requiring no future maintenance.

Metal is finished with Landscape Forms' proprietary Pangard II® polyester powdercoat, a hard yet flexible finish that resists rusting, chipping, peeling and fading. Call for standard color chart. A wide array of optional colors may be specified for an upcharge.

## To Specify

Select the Austin bench in backed or backless option. Specify surface mount cantilever or freestanding/surface mount support. Specify wood type and/or powdercoat color. Specify number of arms. Benches may be specified in FSC certified woods. Visit [landscapeforms.com](http://landscapeforms.com); click Design Tools, Materials/Colors link for standard offerings, including FSC wood options.

[www.landscapeforms.com](http://www.landscapeforms.com)

Download product photos, brochures, color charts, SketchUp components, technical information, CAD details, CSI specifications, assembly instructions.

Austin is designed by Robert Chipman, ASLA. Specifications are subject to change without notice. Austin is manufactured in U.S.A. Austin design is protected by U.S. Patent Nos. D481,210, D481,211, D482,585, D483,990. Austin meets BIFMA performance and safety standards. Location photography: Lady Bird Johnson Wildflower Center, Austin, TX. Landscape Forms supports the LAF at the Second Century level. ©2012 Landscape Forms, Inc. Printed in U.S.A.

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## SITE FURNISHINGS



## SITE FURNISHINGS



If you like the Austin bench,  
you'll love this litter.

Landscape architect Bob Chipman hit all the right notes in his design of a receptacle that's an ideal companion to its namesake bench and a handsome stand-alone solution for a variety of outdoor settings. Shared Austin themes are reflected in the tapered conical body and ribbing of the litter that echo the tapered supports of the bench, and in the "bird's mouth" lid that mirrors the relation between the bench seat and back. The ribbing frames the unit's side door, adding visual interest and providing functional support for the door hinges. A domed stationary lid shields contents from view and helps keep out rain and snow.



Metal is the world's most recycled material and is fully recyclable. Consult our website for recycled content for this product. Powdercoat finish on metal parts contains no heavy metals, is HAPs-free and has extremely low VOCs.

#### Our Purpose Is To Enrich Outdoor Spaces

We believe in the power of design and its ability to elevate experience and help create a sense of place in public environments. Our high quality products and outstanding customer service have earned us a reputation as one of the world's premier designers and manufacturers of outdoor commercial furnishings.

#### Austin Litter Receptacle Specifications

Top and side opening litters are available with or without lock. With a 34 gallon capacity, litter can be freestanding or surface mount. Fabricated with carbon steel body panels, cast aluminum top, and cast iron base. Litter is finished with exclusive Pangard II® powdercoat finish. Black polyethylene liner comes standard with litter. Shipped with freestanding glides that remain in place for surface mounting. Litter ships fully assembled.



#### Finishes

All metal is finished with Landscape Forms' proprietary Pangard II® polyester powdercoat, a hard yet flexible finish that resists rusting, chipping, peeling, and fading. Call for standard color chart.

#### To Specify

Select top or side-opening litter. Specify with or without lock. Select powdercoat color.

#### [www.landscapeforms.com](http://www.landscapeforms.com)

Download product photos, brochures, color charts, SketchUp components, technical information, CAD details, CSI specifications, assembly instructions.

Austin design is protected by U.S. Patent Nos. D097,720, D097,273.  
Austin is designed by Robert Chipman, ASLA.  
Specifications are subject to change without notice.  
Location photography: Grand Rapids Art Museum, Grand Rapids, MI.  
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#### Model BR-3 Bike Rack

This inverted U shaped BR-3 bike rack works well where space is limited. Made from 2" schedule 40 pipe our U-style bicycle rack is durable and easy to use.



out sheet



**Did you know?**  
 Leader is a [green](#) company.

Options
<ul style="list-style-type: none"> <li>• <a href="#">Metal Colors</a></li> <li>• <a href="#">Mounting Styles</a> <ul style="list-style-type: none"> <li>• Surface</li> <li>• Permanent embed</li> </ul> </li> <li>• Base cover</li> <li>• Corrosion resistant undercoat (strongly recommended)</li> <li>• Hot dip galvanizing</li> </ul>

Features
<ul style="list-style-type: none"> <li>• 2" schedule 40 pipe.</li> <li>• Height: 34"</li> </ul>

Take a look at these products too.



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**Current LEAD TIME 6 to 8 Weeks as of March 24th, 2014**

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Most FairWeather benches are ADA compliant.

[http://www.fairweathersf.com/bike\\_racks/index.php?model=BR-3](http://www.fairweathersf.com/bike_racks/index.php?model=BR-3)

3/24/2014

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LU 14-117884 EXHIBIT A.27