

Designer's Choice:  
**NEW TECHNOLOGY!**  
Invisible Occupancy Sensor



**CONCEALITE™**  
LIFE SAFETY PRODUCTS  
A Division of Gow Industries, Inc.

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

## SPACE STATION™

SERIES 2000 OCCUPANCY LIGHTING CONTROL SYSTEM

### Product Overview

The Concealite SpaceStation Series 2000 offers a **completely concealed operation of occupancy sensors**. Occupancy sensors from other manufacturers offer only exposed and architecturally unattractive versions that are surface mounted. Concealite's SpaceStation can detect motion through many dense materials, so it can be installed completely out of sight behind any ceiling material (aside from metal).

SpaceStation Series 2000 detects motion via super high frequency electromagnetic waves and the Doppler Principle; automatically activating the room lighting when someone enters the room, then automatically deactivating the lighting when the room is no longer occupied.

### Features

- Detects movement within a room when installed above suspended ceilings, gypsum board and decorative wood ceilings
- Occupancy sensor is completely concealed from view, and installation requires no visible ceiling penetration
- Sensor coverage pattern is omnidirectional
- Each SpaceStation will provide up to 25' x 25' coverage at a height of 12 feet (Functions up to 60 foot high ceiling applications)
- Field adjustable range control panels (RPC) can be set to cover only the room area, eliminating nuisance tripping in adjacent rooms
- Easily adjustable coverage range, sensitivity and time delay
- Time delay adjustable from 5 seconds to 25 minutes
- Superior stable performance consistently performs regardless of temperature, dust and smoke
- Provides hold-off daylighting control when ambient light is greater than daylighting setpoint (optional).
- Optional T-Grid mounting bracket facilitates easy installation in suspended ceilings
- Simple line voltage wiring does not require a power pack
- SpaceStation Dimensions: 4.0" x 4.0" x 2.0" deep (101.6mm x 101.6mm x 50.8mm deep)



Keep Occupancy Sensors Out of Sight with Concealite's SpaceStation Control System



SpaceStation Occupancy Sensor Control System Provides Invisible Ceiling Installation



# SpaceStation

## Invisible Occupancy Sensing System



FIXTURE SCHEDULE	FIXTURE TYPE:	PROJECT NAME/REF:
	APPROVAL:	PROJECT LOCATION:

### Installation

The SpaceStation Series 2000 concealed occupancy sensor utilizes a ceiling area mounted enclosure and the RCP system. Consisting of four adjustable Range Control Panels for mounting above ceiling materials. The sensor is designed to operate in conjunction with the room light circuits, universal 120 VAC / 277 VAC. The sensor is designed to operate with additional sensors for complete coverage in larger rooms that may also require more than one lighting circuit. Additional lighting circuits can also be controlled simultaneously with the command module which allows any number of circuits (poles) to be specified to match the number of lighting circuits within the same room. The sensor is provided within a standard junction box for lighting circuit branch circuit wiring entrance. The SpaceStation sensor featured in-field adjustable range control panels can be positioned for proper coverage of each room. The sensor offers in field adjustable sensitivity area and time delay operation settings. And optional Daylight interface for areas where ambient light contribution can reduce the lighting operation costs when not needed. For complete installation and operation instructions, please refer to the installation instructions included with each sensor unit.

### New Projects

For new projects, SpaceStation sensors can be installed in accessible ceilings utilizing the T-Bar mounting kit and can also be installed in gypsum board non-accessible ceilings when ordered with the optional ARM mounting kit.

### Retrofit/Remodeling

For retrofit/remodeling applications all ceiling installations can utilize the compact sized SpaceStation with the ARM option which allows the sensor to be easily placed into the ceiling area from a remote location through other required ceiling penetrations (i.e. Light fixtures, J-boxes) for a complete concealed installation.

### Operation

SpaceStation operates at 120 or 277 VAC and utilizes super high frequency technology to control lighting based on occupancy. It sends out electromagnetic waves that bounce off nearby surfaces, and uses the Doppler principle to analyze changes in the return waves to detect motion in the area. When motion is detected, SpaceStation turns on lighting, or turns off lighting when no motion is detected for the preset time delay.

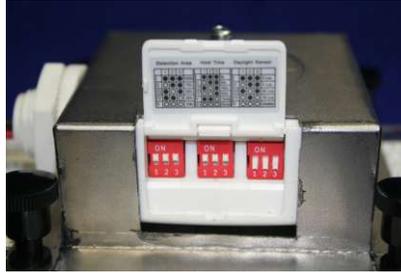
### Product Specifications

- The occupancy sensor shall be Concealite SpaceStation Series 2000.
- 120/277 VAC, 50/60 Hz
- Load Requirements @ 120 VAC, 60 Hz: 400 W ballast or 800 W tungsten. 277 VAC, 60 Hz: 0-1200 W ballast
- Power Input: Stand By .6W, Operating Power 1.2W
- Time Delay: 5 seconds to 25 minutes
- Operating frequency: 5.8 GHz
- Power Output: 1 mW
- Dimensions: 4.0" x 4.0" x 2.0" deep (101.6mm x 101.6mm x 50.8mm deep)
- Weight: 16 ounces
- Operating Temperature Range: -4-131°F (-20-55°C)
- FCC Approved – This product is in compliance with FCC regulations as to not cause interference with any other systems
- UL and CUL Listed; Complies with California Title 24 Code

### Limited Warranty

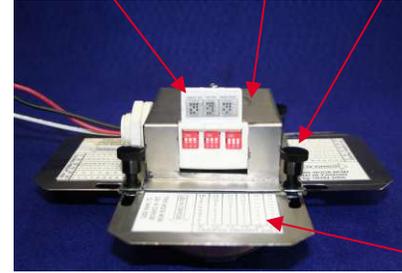
All Concealite equipment is guaranteed against defects in materials and workmanship by the manufacturer for a period of five years from date of shipment under normal operations and proper use. Correction of all defects shall be by replacement or repair (at our discretion) and shall constitute fulfillment of all manufacturer's obligations.

### SpaceStation Series 2000



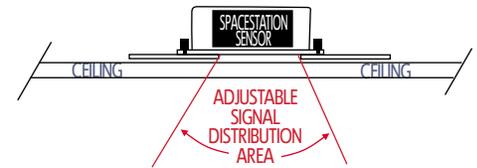
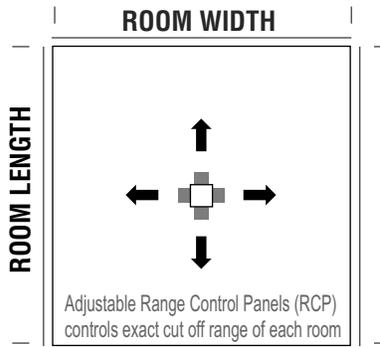
Timing Adjustment

ACCESS TO TIME DELAY & SENSITIVITY ADJUSTMENT  
ELECTRICAL JUNCTION BOX  
LOCKING KNOBS TYPICAL OF FOUR



METAL RANGE CONTROL PANEL (RCP) TYPICAL OF FOUR

Dimensions: 4"H x 4"W x 2"D



Use optional T-bar bracket for support mounting to inverted T-grid lay in suspended ceilings

Each SpaceStation will provide coverage up to:

- 20 feet by 20 feet at 8 foot ceiling height
- 22 feet by 22 feet at 10 foot ceiling height
- 25 feet by 25 feet at 12 foot ceiling height
- (Ranges up to 50 feet by 50 feet at 60 foot ceiling height - contact factory)

### Ordering Information

Example Spec: SS-2001-A-CM4-TBAR

Model	SS	2001	A	CM4
SpaceStation 2000				
Circuit				
Standard - One Circuit Control				
Mounting				
A Accessible Ceiling				
G Gypsum Board				
O Other (Specific Non-Metal Ceiling Type)				
Command Module				
Required for Multiple Circuits				

CMXX Command Module Sensor Controls  
(Enter CM Then Number of 20 AMP Circuits/Poles to be Controlled)

#### Options

TBAR ARM	Suspended Accessible Ceilings T-Bar Mounting Kit Gypsum Board / Inaccessible Ceilings Allows Insertion of Sensor Into Inaccessible Ceilings via Light Fixture / J-Box Openings
HVAC	Mechanical System Control Interface Contactor (ie. Exhaust, Fans, A/C, etc.)
MD	Motorized Door Control Interface Contactor
RDS	Remote Daylight Sensor – Flush Ceiling Mounted
SM	Surface Mounted White Enclosure
WL	Wet Location / Outdoor NEMA 4X locations enclosure. Concealed or exposed (field paintable)
OR	OR - Override FDP Concealed Wall Switch

#### OPTIONS

##### TWO OR MORE SENSORS

Parallel connect multiple (two or more) sensors operating together for areas exceeding range coverage of one lighting sensor.

##### DIMMING BALLAST CIRCUITS MUST BE CONTROLLED BY THE COMMAND MODULE OPTION

**Note:** Larger Rooms Use Multiples of the SpaceStation Series 2000 with Command Module (Option CMXX) to cover any size room. Consult factory for higher ceiling applications.

20 Amp Circuit Rated (Higher Amperes Available)



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### Area Sensitivity Adjustment (SpaceStation Centered in Room)

**Note:** Maximum 60' Height Provides Maximum Range Coverage to 50 x 50 Feet.

See SpaceStation installation sheet for full information on remote mounting, wiring, and adjustments.

Ceiling Height	Room Area Range Coverage at Sensitivity % Setting				
	10%	35%	50%	75%	100%
8 Feet	7'	8'	9'	12'	20'
	x	x	x	x	x
	7'	8'	9'	12'	20'
10 Feet	9'	10'	13'	17'	22'
	x	x	x	x	x
	9'	10'	13'	17'	22'
12 Feet	8'	9'	12'	20'	25'
	x	x	x	x	x
	8'	9'	12'	20'	25'

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# SPACE STATION™

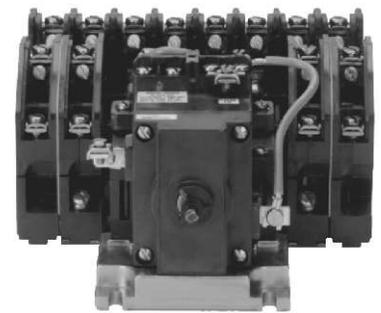
**SERIES 2000** OCCUPANCY LIGHTING CONTROL SYSTEM

## Command Module Sensor Controls

### Features

- 30 Amp ballast lighting rating – 20 Amptungsten lighting rating
- Electrically held
- 2 through 12 pole versions
- Field-convertible contacts with N.O. and N.C. indicators (8 N.C. contacts maximum)
- Silver-Cadmium-Oxide double break contacts

Available in 120vac or 277vac versions.  
 Specify as CMXX-120 or CMXX-277.



## Ordering Information

Example Spec: SS-2001-A-CM4-TBAR

Model	SS	2001	A	CM4	OPTIONS
SpaceStation 2000					
<b>Circuit</b> Standard - One Circuit Control					
<b>Mounting</b> A Accessible Ceiling G Gypsum Board O Other (Specific Non-Metal Ceiling Type)					
<b>Command Module</b> Required for Multiple Circuits CMXX Command Module Sensor Controls {Enter CM Then Number of 20 AMP Circuits/Poles to be Controlled}					
<b>Options</b>					



NEMA 1 Enclosure Included

- TBAR** Suspended Accessible Ceilings T-Bar Mounting Kit  
**ARM** Gypsum Board / Inaccessible Ceilings  
 Allows Insertion of Sensor Into Inaccessible Ceilings via Light Fixture / J-Box Openings  
**HVAC** Mechanical System Control Interface Contactor (ie. Exhaust, Fans, A/C, etc.)  
**MD** Motorized Door Control Interface Contactor  
**RDS** Remote Daylight Sensor – Flush Ceiling Mounted  
**SM** Surface Mounted White Enclosure  
**WL** Wet Location / Outdoor NEMA 4X locations enclosure. Concealed or exposed (field paintable)  
**OR** OR - Override FDP Concealed Wall Switch

These specifications are subject to change.

**Note:** Install with any ceiling type other than metal.



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**Disguised.  
Damage-Resistant.  
Defense.**



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

Our compact, virtually invisible motion detector enclosures preserve the integrity of architectural or interior designs, without sacrificing security and performance. We are the very first to offer concealed detection systems, in fact we invented it! With over two decades of experience developing and manufacturing unique concealed fixtures, Concealite remains the top choice for design professionals.

## MX Series Concealed Motion Detector

### Aesthetics

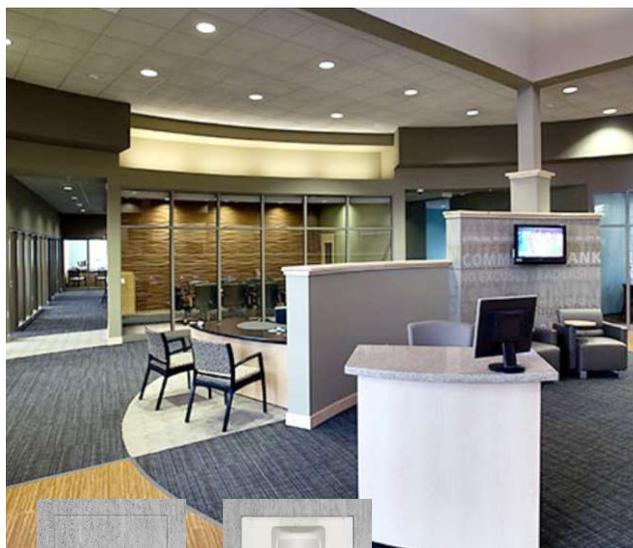
Typical motion detector appliances are obtrusive and interrupt the aesthetic beauty of interior designs. Concealite has applied their patented concealed technology to motion detection, offering a beautiful and vandal-resistant alternative to visible surface mount detectors. Only when the commercial or residential security system is activated, does the detector become visible, rotating 180 degrees to begin operation. The result is a clean, almost invisible installation, that does not conflict with your interiors.

### Motion Detection

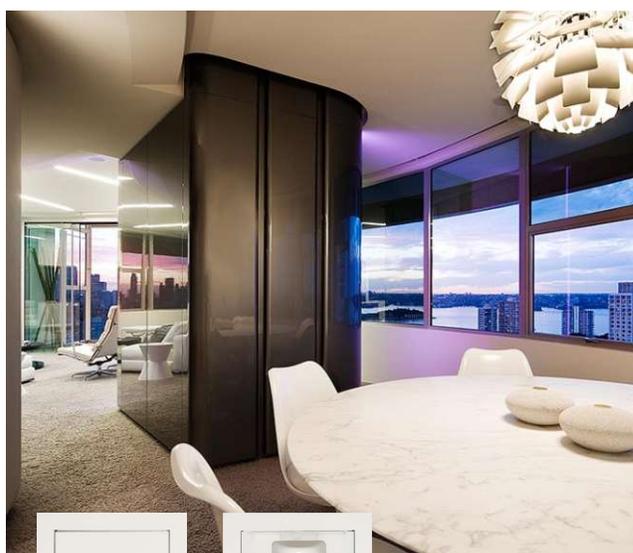
The MX Series I enclosure can conceal virtually all types and brands of motion detectors/sensors. (Contact factory for more information)

### Architectural Features

- Designed for commercial and residential applications.
- Standard white powder coat finish or units can be customized in the field using paint, wallpaper, or applique finishes.
- No minimum order for factory custom paint or metal finishes (ie. bronze, stainless, etc).
- Compact, completely self-contained units.
- Enclosures are vandal-resistant.
- Designed for wall or ceiling installations, including gypsum board, plaster, concrete, brick, or acoustical tile.
- Fully automatic operation; door is operated by a 12 Volt DC motor, with an integrated gear head operated by the buildings' security panel.
- Fully adjustable motion detection as with fixed mount installation.
- Frameless mounting system available (for standard back boxes only).



Commercial/Retail



Residential

# MX Series Concealed Motion Detector

<b>FIXTURE SCHEDULE</b>	FIXTURE TYPE:	PROJECT NAME/REF:
<b>APPROVAL:</b>	LAMP TYPE:	PROJECT LOCATION:

## Installation

This fixture utilizes a recessed flange for flush mounting in either a wall or ceiling. 12vDC power is derived from security panel through conduit knockouts on the recessed enclosure. The door, detector, and motor drive assembly is inserted into the recessed enclosure. The assembly is then secured in place with two (2) concealed bolts that allow for adjustment to the wall or ceiling thickness. For complete installation and operation instructions, please refer to the instruction sheet included with each unit.

## New Projects

For new projects, a single enclosure is mounted before the wall or ceiling material is installed.

## Retrofit/Remodeling Projects

For retrofit/remodeling applications a multi-section (suffix RB) enclosure is available. See options and technical data section for details.

## Product Specifications

The concealed motion detector unit shall be Concealite Series MX and will be installed in accordance to Article 700 of the National Electrical Code. The standard unit shall be a white powder coat finish, and can be custom finished (contact factory for information or option). The unit will be stored in a retracted position during non-activated security conditions. Upon arming the security panel, the unit will be deployed into the open position and the detector energized. Deactivation of the security system will cause the unit to retract to the stored position and de-energize the motion detector. Motor shall be a 12 Volt sealed permanent magnet type with a 30 year service life. The electronics shall be a solid state design. The maximum power draw is no more than 8 watts.

## Limited Warranty

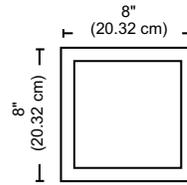
All Concealite equipment is guaranteed against defects in materials and workmanship by the manufacturer for a period of three years from date of shipment under normal operations and proper use. Correction of all defects shall be by replacement or repair (at our discretion) and shall constitute fulfillment of all manufacturer's obligations.

### MX SERIES

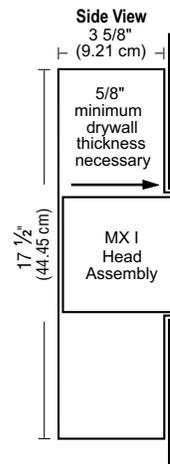


### Unit Dimensions

Including Frame Dimensions



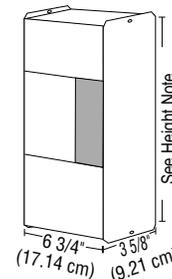
### Back Box Dimensions



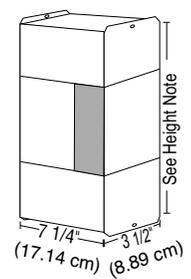
#### Note:

Unit requires finished opening of 7 1/4"H x 6 3/4"W.  
Unit depth of 3 5/8" allows for installation into wall or ceiling.

#### Standard (New Construction)



#### Retro-Fit (Install into Existing Construction)



**Height Note:** Back box heights are given by model number. For height dimensions, refer to the Back Box Dimensions cut sheet.

## Ordering Information

	MX	I	ADT	OPTIONS
<b>Series</b>	MX			
<b>Model</b>	I 8x8 Frame CMX Custom Size for Larger Fixtures (Contact Factory)			
<b>Detector</b>	ADT X10 Honeywell Optex Ademco OD Other Detector Brand/Type (Contact Factory)			
<b>Options</b>	FMS Frameless Appearance (Frameless Mounting System) For Standard Back Boxes Only PT Plaster Trim SM Surface Mount Enclosure RB Retro Fit Back Box (See Back Box Dimensions) TBAR T-Bar Mounting Kit CBLK C-Block Back Box (MX I Only) DL Damp Location CF Custom Finish (Specify 4 digit RAL #)			

<b>FMS</b>	Frameless Appearance (Frameless Mounting System) For Standard Back Boxes Only
<b>PT</b>	Plaster Trim
<b>SM</b>	Surface Mount Enclosure
<b>RB</b>	Retro Fit Back Box (See Back Box Dimensions)
<b>TBAR</b>	T-Bar Mounting Kit
<b>CBLK</b>	C-Block Back Box (MX I Only)
<b>DL</b>	Damp Location
<b>CF</b>	Custom Finish (Specify 4 digit RAL #)



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Now Offering  
**EonSTAR™**  
TECHNOLOGIES  
LED Lamps!



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Our compact, virtually invisible emergency lighting fixtures preserve the integrity of architectural or interior designs, while meeting Code requirements. We are the very first to offer concealed emergency lighting, in fact we invented it! With over two decades of experience building and designing unique concealed fixtures, we remain the top choice for quality and cost-effective emergency lighting.

## 5000 Series Emergency Lighting

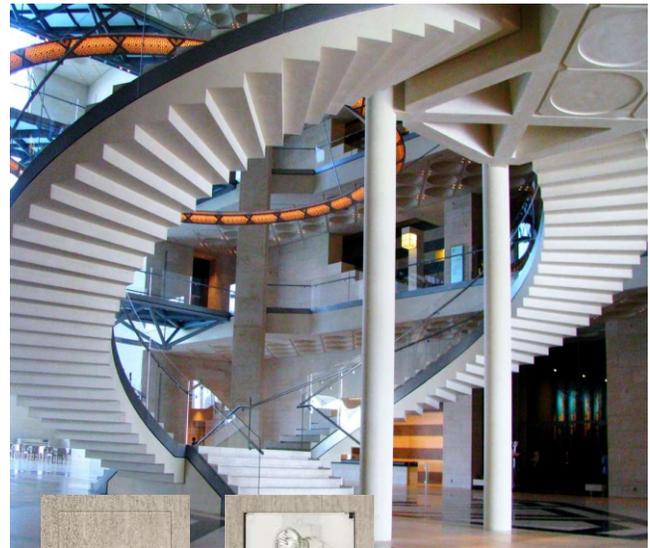
  (Self-Contained Battery System Included)

### Aesthetics

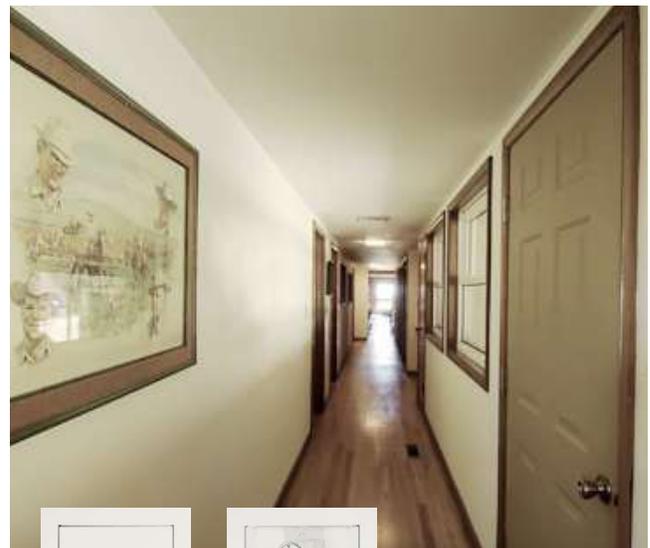
Typical emergency lighting appliances are obtrusive and interrupt the aesthetic beauty of interior designs. Concealite has applied their patented concealed technology to emergency lighting to offer a beautiful alternative to "bug eyes". Only when the system is activated do the high-powered lamps become visible, rotating 180 degrees to begin operation. The result is a clean, almost invisible installation, that does not conflict with your interiors.

### Architectural Features

- Standard white powder coat finish or units can be customized in the field using paint, wallpaper, or applique finishes.
- No minimum order for factory custom paint or metal finishes (ie. bronze, stainless, etc).
- Compact, completely self-contained units.
- Designed for wall or ceiling installations, including gypsum board, plaster, concrete, brick, or acoustical tile.
- Fully automatic operation, door is operated by a 12 Volt DC motor with integrated gear head.
- Choice of standard 90 minute, 2 or 4 hour operation.
- Fully adjustable 12, 20, 35, 50, or 75 Watt quartz halogen lamps are available for up to 150 Watt output.
- 3000 hour, MR-16 with GU-10 bi-pin twist lock base.
- Long-life 12 Volt sealed lead calcium recombinant battery is standard. Optional nickel cadmium batteries are available.
- Fully automatic solid-state charger with universal transformer (120/277 Volt) comes standard or 347 Volt transformer is optional.
- Self-diagnostic controls are an available option.
- UL Listed.
- Frameless mounting system available (for standard back boxes only).



Art Museum, Doha, Qatar



Hotel Corridor, Plano TX

# 5000 Series Emergency Lighting



BATTERY (Self-Contained Battery System Included) F5 Two (2)75 Watt Quartz H

FIXTURE SCHEDULE	FIXTURE TYPE:	PROJECT NAME/REF:
APPROVAL:	LAMP TYPE:	PROJECT LOCATION:

## Installation

This fixture utilizes a recessed flange for flush mounting in either a wall or ceiling. Normal power (120/277 Volts) and remote test module (optional) connections to the unit are made through conduit knockouts on the recessed enclosure. The door, lamp, and motor drive assembly is inserted into the recessed enclosure. The assembly is then secured in place with two (2) concealed bolts that allow for adjustment to the wall or ceiling thickness. For complete installation and operation instructions, please refer to the instruction sheet included with each unit.

## New Projects

For new projects, a single enclosure is mounted before the wall or ceiling material is installed.

## Retrofit/Remodeling Projects

For retrofit/remodeling applications a multi-section (suffix RB) enclosure is available. See options and technical data section for details.

## Product Specifications

The emergency lighting unit shall be Concealite Series 5000 and will conform to UL Standard #924 and be installed in accordance to Article 700 of the National Electrical Code. The standard unit shall be a white powder coat finish, and can be custom finished by factory, or in the field, using paint, wallpaper or applique. The unit will be stored in a retracted position during normal power conditions. Upon the loss of utility power, the unit will be deployed into the open position and the lamps energized. Restoration of utility power will cause the unit to retract to the stored position, and the lamps to extinguish. The unit will provide emergency lighting for a minimum of 90 minutes. Motor shall be a 12 Volt sealed permanent magnet type with a 30 year service life. The electronics shall be a solid state design. The maximum power draw is no more than 23 watts. The charger will include LVD and brownout circuits. Unit will be rated at 120/277 VAC, 60hz (347 Volt optional). The unit shall have an integral test switch and pilot light to indicate charge.

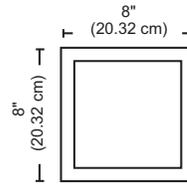
## Limited Warranty

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### 5000 Series

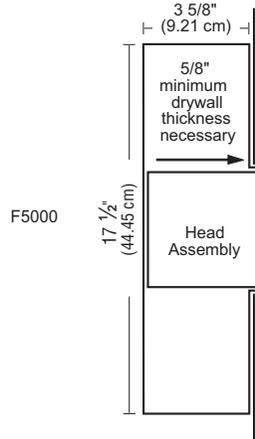


### Unit Dimensions Including Frame Dimensions



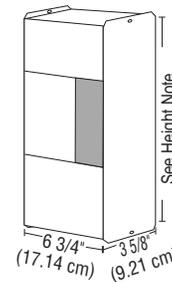
### Back Box Dimensions

#### Side View

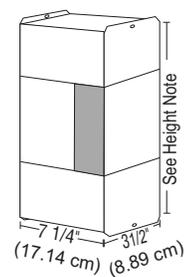


**Note:**  
Unit requires finished opening of 7 1/4"H x 6 3/4"W.  
Unit depth of 3 5/8" allows for installation into wall or ceiling.

#### Standard (New Construction)



#### Retro-Fit (Install into Existing Construction)



**Height Note:** Back box heights are given by model number. For height dimensions, refer to the Back Box Dimensions cut sheet.

## Ordering Information

Series	F5	LED45	2	OPTIONS
Type				
LED30	Two (2) EonStar LED lamps, 3 watt, 30 degree			
LED45	Two (2) EonStar LED lamps, 3 watt, 45 degree			
12	Two (2)12 Watt Quartz Halogen Lamps			
20	Two (2)20 Watt Quartz Halogen Lamps			
35	Two (2)35 Watt Quartz Halogen Lamps			
50	Two (2)50 Watt Quartz Halogen Lamps			
75	Two (2)75 Watt Quartz Halogen Lamps			
Hours of Operation				
90	1½ Hours (LED30,LED45,12, 20, 35, 50, 75 Watt)			
2	2 Hours (LED30,LED45,12, 20, 35, 50 Watt)			
4	4 Hours (LED30,LED45,12, 20, 35 Watt)			
Options				

**EonStar LED'S**  
equivalent to 35 watt  
Halogen Light Output!

**RB Option:**  
Existing Construction Installation  
Our unique to the market Retro Back Box is available that allows installation into existing Construction.

FMS	Frameless Appearance (Frameless Mounting System) For Standard Back Boxes Only
PT	Plaster Trim
SD	Self-Diagnostic
RT	Remote Test Module
SM	Surface Mount Enclosure
RB	Retro Fit Back Box (See Back Box Dimensions)
TBAR	T-Bar Mounting Kit
CBLK	C-Block Back Box (Not available for F5-35-4, F5-50-2 or F5-75-90)
DL	Damp Location
IR	Infrared Hand Held Remote Testing
TDR	Time Delay Relay (Contact Factory for Delay Times and Pricing)
NC	Nickel Cadmium Batteries
220	220VAC, 50HZ
347	347VAC, 50HZ
CF	Custom Finish (Specify 4 digit RAL #)
CCEA	City of Chicago Environmental Air (Formally Chicago Plenum).



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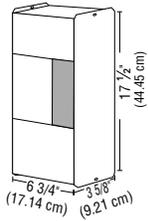
# Concealite's Back Box Dimensions

## Options and Technical Data

### Recessed Battery Back Boxes

#### New Construction

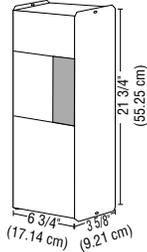
Note: R-1 fits FA100, R4000, and MX I. F5000 based on size (see below).



R-1  
Lead Acid  
#F5-12-90  
#F5-12-2  
#F5-20-90

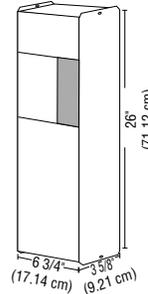
R-1  
NiCad  
#F5-12-90  
#F5-12-2  
#F5-20-90  
#F5-20-2

R-1 LED's all run times.



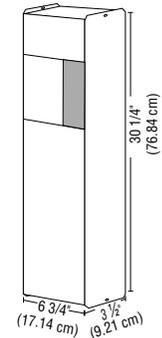
R-2  
Lead Acid  
#F5-12-4  
#F5-20-2  
#F5-35-90  
#F5-35-2  
#F5-50-90

R-2  
NiCad  
#F5-12-4  
#F5-20-4  
#F5-35-90  
#F5-35-2  
#F5-50-90



R-3  
Lead Acid  
#F5-20-4  
#F5-50-2  
#F5-75-90

R-3  
NiCad  
#F5-50-2  
#F5-75-90



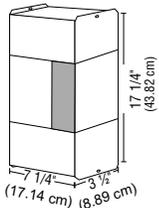
R-4  
Lead Acid  
#F5-35-4

R-4  
NiCad  
#F5-35-4

### Retrofit Back Boxes

#### Existing Construction

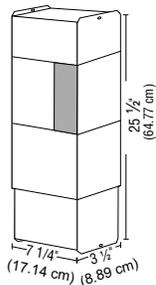
Note: Retro-1 fits FA100, R4000, and MX I. F5000 based on size (see below).



Retro-1  
Lead Acid  
#F5-12-90  
#F5-12-2  
#F5-20-90

Retro-1  
NiCad  
#F5-12-90  
#F5-12-2  
#F5-20-90  
#F5-20-2

Retro-1 LED's all run times.



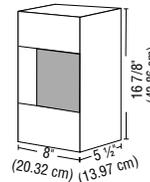
Retro-3  
Lead Acid  
#F5-12-4  
#F5-20-2  
#F5-20-4  
#F5-35-90  
#F5-35-2  
#F5-50-90  
#F5-50-2  
#F5-75-90

Retro-3  
NiCad  
#F5-12-4  
#F5-20-4  
#F5-35-90  
#F5-35-2  
#F5-50-90  
#F5-50-2  
#F5-75-90

### Surface Mount Back Boxes

#### New Construction

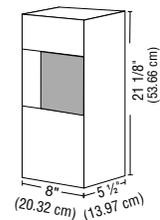
Note: SM-2 fits FA100, R4000, and MX I. F5000 based on size (see below).



SM-2  
Lead Acid  
#F5-12-90  
#F5-12-2  
#F5-12-4  
#F5-20-90  
#F5-20-2  
#F5-20-90  
#F5-35-2  
#F5-50-90

SM-2  
NiCad  
#F5-12-4  
#F5-20-4  
#F5-35-90  
#F5-35-2  
#F5-50-90

SM-2 LED's all run times.



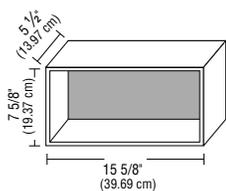
SM-4  
Lead Acid  
#F5-20-4  
#F5-35-4  
#F5-50-2  
#F5-75-90

SM-4  
NiCad  
#F5-35-4  
#F5-50-2  
#F5-75-90

### C-Block

#### New Construction

Note: C-Block fits R4000, FA100, and MX I. F5000 based on size/battery (see below).



C-Block  
Lead Acid  
#F5-12-90  
#F5-12-2  
#F5-12-4  
#F5-20-90  
#F5-20-2  
#F5-35-90  
#F5-35-2  
#F5-50-90

C-Block  
NiCad  
#F5-12-90  
#F5-12-2  
#F5-12-4  
#F5-20-90  
#F5-20-4  
#F5-35-90  
#F5-35-2  
#F5-50-90

C-Block LED's all run times.



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Ingenious.



With over two decades of experience building and designing unique concealed fixtures, we remain the top choice for innovative and quality life safety products. The RPL (Remote Powered Lighting) Series R4000 offers a remote powered alternative to our F5000 unit which has self-contained batteries. The R4000 model may also be specified in a non-emergency capacity to serve as operational lighting only.

## RPL Series R4000

   REM (Remote Power Required)

### Aesthetics

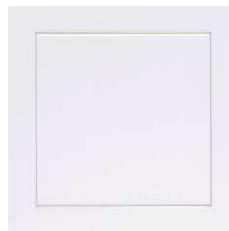
These compact, virtually invisible emergency lighting fixtures preserve the integrity of architectural or interior designs while meeting all National and State code requirements. Only when the unit is activated do the lamps become visible, rotate 180 degrees, and begin operation. The result is a clean, almost invisible installation, that does not conflict with your interiors.

### Architectural Features

- Standard white powder coat finish or units can be customized in the field using paint, wallpaper, or applique finishes.
- No minimum order for factory custom paint or metal finishes (ie. bronze, stainless, etc).
- Compact, completely self-contained units.
- Designed for wall or ceiling installations, including gypsum board, plaster, concrete, brick, or acoustical tile.
- Fully automatic operation, door is operated by a 12 Volt DC motor with integrated high-torque gear head.
- Fully adjustable 12, 20, 35, 50, or 75 Watt quartz halogen lamps are available for up to 150 Watt output.
- 3000 hour, MR-16 with GU-10 bi-pin twist lock base.
- Lamp Wattage of up to 75 watts is available.
- Quartz halogen lamps virtually eliminate the need for replacement.
- The 30 year continuous duty motor is maintenance-free under normal operation.
- UL Listed.



Gonpachi Restaurant, Beverly Hills CA



Custom Finishes  
Available to Match  
Your Interiors.

# RPL Series R4000



REM (Remote Power Required)

<b>FIXTURE SCHEDULE</b>	FIXTURE TYPE:	PROJECT NAME/REF:
<b>APPROVAL:</b>	LAMP TYPE:	PROJECT LOCATION:

## Installation

### Remote Powered R4000 Fixture:

The normal power (120 or 277 VAC) and the emergency power (120 or 277 VAC) connections are made to the recessed enclosure. The door, lamp, and motor drive assembly is inserted into the recessed enclosure. The assembly is then secured in place with two (2) concealed bolts that allow for adjustment to the wall or ceiling thickness. For complete installation and operation instructions, please refer to the instruction sheet included with each unit.

## New Projects

For new projects, a single enclosure is mounted before the wall or ceiling material is installed.

## Retrofit/Remodeling Projects

For retrofit/remodeling applications a multi-section (suffix RB) enclosure is available. See options and technical data section for details.

## Product Specifications

The emergency lighting unit shall be R4000, and will conform to UL Standard #924 and be installed in accordance to Article 700 of the National Electrical Code. The unit will be stored in a retracted position during normal power conditions and upon the loss of utility power, will be deployed into the open position and the lamps energized. Restoration of utility power will cause the unit to retract to the stored position and the lamps extinguish. The unit shall be constructed of cold rolled steel. Motor shall be a 12 Volt sealed permanent magnet type with a 30 year service life. The electronics shall be a solid state design. Lamps shall be MR-16 with GU-10 Bi-Pin twist lock base. The unit shall be available in 12, 24, 120 and 277 Volt configurations.

## Limited Warranty

All Concealite equipment is guaranteed against defects in materials and workmanship by the manufacturer for a period of three years from date of shipment under normal operations and proper use. Correction of all defects shall be by replacement or repair (at our discretion) and shall constitute fulfillment of all manufacturer's obligations.

### R4000



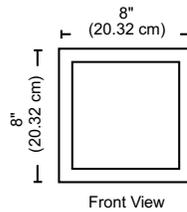
#### Note:

Unit requires finished opening of 7 1/4"H x 6 3/4"W. Unit depth of 3 5/8" allows for installation into stud wall or ceiling.

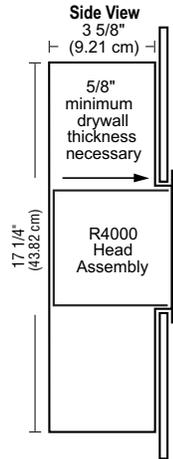
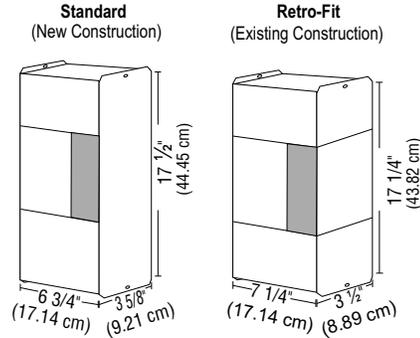
#### Unique to the Market:

A Retro Back Box is Available that Allows Installation into Existing Construction

#### Unit Dimensions



#### Back Box Dimensions



## Ordering Information

	R4	20	120N	120E	OPTIONS
<b>Series</b>	RPL R4000 (REM)				
<b>Type</b>	12 Two (2)12 Watt Quartz Halogen Lamps 20 Two (2)20 Watt Quartz Halogen Lamps 35 Two (2)35 Watt Quartz Halogen Lamps 50 Two (2)50 Watt Quartz Halogen Lamps 75 Two (2)75 Watt Quartz Halogen Lamps				
<b>Regular Voltage (Non-Emergency)</b>	12 VDC 24 VDC 120 VAC 277 VAC				
<b>Emergency Voltage</b>	12 VDC 24 VDC 120 VAC 277 VAC				
<b>Options</b>	FMS - (Flush Mounting System) Provides Frameless Appearance PT - Plaster Trim SM - Surface Mount Enclosure CF - Custom Finish (Specify Color) RB - Retro Fit Back Box for Remodel Projects TBAR - T-Bar Mounting Kit CBLK - C-Block Back Box TDR - Time Delay Relay				

### REM Power Requirements for the R4000 Fixture:

The R4000 fixtures are remote powered and do not have self contained batteries. External emergency power source is required, such as an Inverter, central battery unit or generator.

There are two ways to power and activate the R4000 fixtures, a single circuit method and a two circuit normal power monitoring method. Please review the attached Power Requirement Form to properly specify the correct fixture for your application.



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 Phone: (605)542-4444  
 Fax: (605)542-3333  
 www.concealite.com

Note: These specifications are subject to change

# Power Requirements for the RPL Series R4000



**Power Requirements for the RPL Series:**  
Does Not Have Self-Contained Battery System

There are two ways to power the R4000 from an emergency power source. The R4000 only needs to be powered during the emergency mode. The R4000 automatically returns to the closed position when the emergency circuit is de-energized. However, monitoring what is actually happening within the area and supply sources available dictates whether one or two input circuits are needed.

## **Method #1 (One Circuit)**

**Provide one emergency power circuit that is energized only during the operation of the generator.** This can be sourced from the emergency panel circuit breakers typically located on the generator itself. Dedicated circuit breakers must be called out as part of the generator specifications. The emergency circuit voltage must be specified and can be either 120 Volt or 277 Volt AC.

### **Item # Example:**

R4-REM-Wattage-120E (Generator Leads Only) or R4-REM-Wattage-277E (Generator Leads Only)

## **Method #2 (Two Circuits)**

**Provide one emergency power circuit from a building emergency panel.** This is typically a panel that is constantly supplied by normal power & backed up by emergency power via an automatic transfer switch from a generator. This emergency circuit would basically serve the R4000 with a constant hot emergency source, so the R4000 requires notification when an actual emergency condition is occurring.

**Provide one normal power circuit from a building normal power panel that is not backed up by an emergency source.** This circuit would power a relay in the R4000 that would sense the loss of normal power and close the contact on the emergency circuit serving the R4000 during emergency mode.

The emergency and the normal branch circuit voltages must be specified and can be any combination of 120 Volt or 277 Volt AC.

### **Item # Example:**

R4-REM-Wattage-120N/120E or R4-REM-Wattage-277N/277E

R4-REM-Wattage-120N/277E or R4-REM-Wattage-277N/120E



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**RPL Series R4000 (REM)**

To enhance the customer service of Concealite Life Safety Products and to ensure that the correct product is shipped, please complete this form and return to Concealite. This form must be signed off on by a Project Manager, Specifier, or Electrical Engineer. Thank you, Concealite Life Safety Products

<b>To:</b>	<b>Date:</b>
<b>Date:</b>	<b>Job #:</b>
<b>Sold To:</b>	<b>Job Name:</b>
<b>Phone:</b>	<b>PO #:</b>



   REM (Remote Power Required)

The above Job Order has the following R4000 remote powered fixtures ordered:

---

---

**For R4000 (REM) fixture designation:**

**Emergency Voltage** \_\_\_\_\_

**Normal Voltage** \_\_\_\_\_

**OR**

**Generator Leads Only Voltage** \_\_\_\_\_

**By signing this form, I confirm that a generator or inverter is installed on the job site for the above order:**

Name

Title

Date

---

The fixture(s) ordered are custom built per your order requirements and non -returnable, except for factory defects.

Dual.  
Durable.  
Dependable.



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

The Concealite CB Series central battery units are designed to back up low voltage Emergency Lighting Fixtures that require an emergency remote power source.

## DC Emergency Lighting Battery Power Systems

CB Series 

Concealite's CB1, CB2 and CB3 Central Battery Systems are designed for remote lighting head applications. State-of-the-art design and rugged construction are built-in to assure many years of dependable service.

### Features

- Completely self-contained
- Models operate for up to four hours
- Fully automatic solid-state charger
- Automatic battery protection (LVD)
- Models for loads up to 300 watts output
- Die-formed heavy 18 gauge steel cabinet
- Dual 120 or 277 VAC input, field selectable
- 1-1/2 hours of light to an end battery voltage of 87-1/2% of normal voltage
- Remote fixture capabilities
- Automatic brownout feature
- Solid-state charging circuit
- Long-life, lead calcium maintenance free battery
- Solid-state line-latched low voltage disconnect for 100% load disconnect protection to guard against battery deep discharge
- Momentary test switch
- AC ready light
- Listed to UL 924 Standards



**DC Central Battery Unit**

### Installation

All models mount directly to the wall by means of an optional Wall Mount Shelf. Multiple knockouts are provided for 1/2" conduit. Fused connections are provided for remote fixture wiring.

### Operation

Upon failure of normal utility power, a transfer switch automatically connects the battery to the DC lighting heads. Upon resumption of normal utility power, the DC lighting load is disconnected and the battery is recharged. The Central Battery System features a fully automatic, solid-state, temperature compensating, current limiting, two-rate battery charger, designed to recharge the battery within 24 hours. To prevent the battery from being severely damaged by a deep voltage discharge, a line-latched, solid-state low voltage disconnect is used. A voltage sensitive brownout circuit monitors the in/out voltage to this unit and automatically activates the emergency light when a pre-determined reduction of AC voltage occurs. This fluctuation of utility provided AC voltage would cause most fluorescent light fixtures to extinguish even though a power failure has not occurred.

### Product Specifications

Emergency lighting shall be provided by a Concealite maintenance-free CB Series Central Battery Unit model \_\_\_\_\_. Operation shall be fully automatic and the emergency power unit shall be capable of providing \_\_\_\_\_ Watts of power for a minimum of 90 minutes. Cabinet construction shall be to NEMA 1 specifications. Batteries shall be maintenance free lead calcium. Features shall include a solid-state charger, automatic transfer circuit. A charge rate indicator and test switch shall be included. Optional Remote Test Switch (RT) is available.

### Limited Warranty

All Concealite equipment is guaranteed against defects in materials and workmanship by the manufacturer for a period of three years from date of shipment under normal operations and proper use. Correction of all defects shall be by replacement or repair (at our discretion) and shall constitute fulfillment of all manufacturer's obligations.

## CB Series

### DC Central Battery Units



**CB 1**  
 Depth 4.0" (10.16 cm) x  
 Width 13.5" (34.29 cm) x  
 Height 8.7" (22.10 cm)

**CB2 & CB 3**  
 Depth 6.75" (17.15 cm) x  
 Width 18" (45.72 cm) x  
 Height 8.7" (22.10 cm)

#### Total Remote Fixture Load (Watts)

Model #	Output Volts	Watts for 90 Min
CB1	12VDC	100
CB2	12VDC	200
CB3	12VDC	300



IR Infrared Remote Test System Option Available

### Ordering Information

Example Spec: CB3-S6-IR-TDR120

Model	CB3	OPTIONS
CB 1		
CB 2		
CB 3		
<b>Options</b>		
WGI	Wire Guard	
RT	Remote Test Switch	
TDR120	120 VAC, 15 Min Time Delay Relay	
TDR277	277 VAC, 15 Min Time Delay Relay	
S3	Wall Mounting Shelf (Fits CB1)	
S6	Wall Mounting Shelf (Fits CB2 and CB3)	
IR	Infrared Remote Test System	
<b>XC</b>	<b>Control System for Concealite's Hydro-Lite HL Series Remotely Powered Fixtures (HL REM and HL C-Block)</b>	

The size of the conductors will depend on the distance between the power source and the total wattage of the remote fixture. Please refer to the Voltage Drop Tables to determine appropriate wiring size. Please refer to the remote wiring section in the optional technical data section of the catalog for the number of conductors needed to control remote fixtures.

Note: These specifications are subject to change



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Concealite offers an innovative choice that conceals obtrusive fire alarm appliances. Our life safety products are available in a variety of custom finishes to blend in with interiors. We specialize in working with the design community to make our custom product lines fit your ideas and needs.

### Conceal-Alarm Series

FA100 & FA900 

ETL listed to UL standards UL1971, UL1480, UL464

#### Aesthetics

In architectural environments, fire notification appliances are obtrusive and interrupt the aesthetic beauty of interior designs. Concealite has applied their patented egress lighting technology to fire alarm equipment in order to maintain design integrity. Only when the fire system is activated do the units become visible, rotate 180 degrees, and begin operation. The result is a clean, almost invisible installation, that does not conflict with your interior.

#### Architectural Features

- Standard white powder coat finish or units can be customized at the factory or in the field using paint, wallpaper, or applique finishes.
- No minimum order for factory customized paint.
- Compact, completely self-contained units.
- Interfaces with all fire alarm systems.
- Units fit in standard stud wall.
- Retrofit kits available for installation in existing walls or ceilings.
- Units furnished standard with Wheelock UL listed devices.  
(See FAFX for larger ceiling devices.)
- Units are vandal resistant.
- Designed for wall or ceiling installations, including gypsum board, plaster, concrete, brick, or acoustical tile applications
- Units conform to NFPA 72 standards.
- ETL listed to UL standards UL1971, UL1480, UL464
- **Frameless mounting system available.**



Historic Tennessee Theater, Knoxville TN

**Conceal-Alarm interfaces with any fire alarm system meeting local and National Life Safety Codes.**



**FA100**  
Horn/Strobes  
Horns  
Strobes  
Speakers



**FA900**  
Speaker/Strobes



Custom Finishes are Available to Match Interiors.

# Conceal-Alarm Series

FA100 & FA900



FIXTURE SCHEDULE	FIXTURE TYPE:	PROJECT NAME/REF:
APPROVAL:	CANDELA:	PROJECT LOCATION:

## Installation

This fixture utilizes a recessed flange for flush mounting in either wall or ceiling. The assembly adjusts to any wall or ceiling thickness and is secured in place with concealed fasteners. The door, appliance, and motor drive assembly are inserted into the recessed enclosure. Wire connections to the unit are made through conduit raceway on the recessed enclosure. For complete installation and operation instructions, please refer to the instruction sheet included with each shipment.

## New Projects

For new projects, a single enclosure is mounted before the wall or ceiling material is installed.

## Retrofit/Remodeling Projects

For retrofit/remodeling applications a multi-section (suffix RB) enclosure is available. See options and technical data section for details.

## Product Specifications

The fire notification appliance shall be Concealite Conceal-Alarm Series. The unit shall be wall or ceiling mounted and will be controlled by the central fire system. Upon system activation, the door of the unit shall rotate 180 degrees and the fire notification appliance shall begin operation. Upon fire system shutdown, the door will rotate 180 degrees putting the appliance in the hidden or stored position. The standard unit shall be a white powder coat finish, and can be custom finished by factory, or in the field, using paint, wallpaper or applique. The unit shall fit in a standard stud wall, and back boxes shall be available for any standard wall or ceiling material. The unit shall interface seamlessly with any fire system and shall not affect or interfere with any diagnostic routines of the fire system. The unit shall be in conformance with NFPA 72 (National Fire Alarm Code).

## Limited Warranty

All Concealite equipment is guaranteed against defects in materials and workmanship by the manufacturer for a period of three years from date of shipment under normal operations and proper use. Correction of all defects shall be by replacement or repair (at our discretion) and shall constitute fulfillment of all manufacturer's obligations.

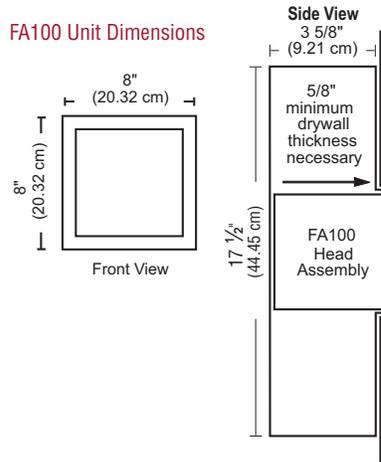
### FA100

Horn/Strobe Combination, Horn, Strobe, Speaker



**Note:**  
Unit requires finished opening of 7 1/4"H x 6 3/4"W.  
Unit depth of 3 5/8" allows for installation into **walls only**. (No Ceiling installations. See FA-FX for ceiling applications).

### FA100 Unit Dimensions



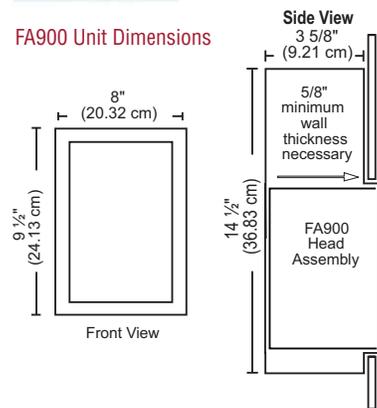
### FA900

Speaker/Strobe



**Note:**  
Unit requires finished opening of 8 7/8"H x 6 3/4"W.  
Unit depth of 3 5/8" allows for installation into **walls only**. (No ceiling installations. See FA-FX for ceiling applications).

### FA900 Unit Dimensions



## Ordering Information

Example Spec: FA900-W-24-SSPK-110-FMS-CF

Series	FA900	W	24	SSPK	110	OPTIONS
FA900 (Wall Only) Speaker/Strobe						
FA100 Horn & Strobe						
Horn Only						
Strobe Only						
Speaker Only						
Type						
W Wall						
C Ceiling						
Voltage						
24 24 VDC						
Notification						
SSPK Speaker/Strobe (FA900 only)						
AS Horn/Strobe Combination (FA100)						
A Horn (FA100)						
C Chime						
S Strobe (FA100)						
SPK Speaker (FA100)						
Strobe Intensity						
15 15 Candela						
30 30 Candela						
75 75 Candela						
95 95 Candela (Ceiling Only)						
110 110 Candela (Wall Only)						
115 115 Candela (Ceiling Only)						
135 135 Candela (Wall Only)						
177 177 Candela (Ceiling Only)						
185 185 Candela (Wall Only)						
Options						
FMS Frameless Appearance (Frameless Mounting System)						
PT Plaster Trim						
RB Retro Fit Back Box						
SM Surface Mount Enclosure (FA100 Only)						
CBLOCK Cinder Block Back Box (FA100 Only)						
TBAR T-Bar Mounting Kit						
CF Custom Finish (Specify 4 digit RAL #)						

**RB Option:**  
Existing Construction Installation  
Our unique to the market Retro Back Box is available that allows installation into existing construction.



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Concealite offers an innovative choice that conceals obtrusive fire alarm appliances. Our life safety products are available in a variety of custom finishes to blend in with interiors. We specialize in working with the design community to make our custom product lines fit your ideas and needs.

### Conceal-Alarm Series

FAFX



ETL listed to UL standards UL1971, UL1480, UL464

#### Aesthetics

In architectural environments, fire notification appliances are obtrusive and interrupt the aesthetic beauty of interior designs.

Concealite has applied their patented egress lighting technology to fire alarm equipment in order to maintain design integrity. Only when the fire system is activated do the units become visible, rotate 180 degrees, and begin operation. The result is a clean, almost invisible installation, that does not conflict with your interior.

#### Architectural Features

- Designed for ceiling installations, including gypsum board, plaster, or acoustical tile applications
- Standard white powder coat finish or units can be customized at the factory or in the field using paint, wallpaper, or applique finishes.
- No minimum order for factory customized paint.
- Compact, completely self-contained units.
- Interfaces with all fire alarm systems.
- Units furnished standard with Wheelock UL listed devices.
- Units are vandal resistant.
- Units conform to NFPA 72 standards.
- ETL listed to UL standards UL1971, UL1480, UL464



Acoustic Ceiling Installation

**Conceal-Alarm interfaces with any fire alarm system meeting local and National Life Safety Codes.**

FX Shown Below with Ceiling Speaker / Strobe Fixture Installed



FAFX (Ceiling Only)

Speaker/Strobes  
Horn/Strobes  
Horns  
Strobes  
Speakers

Custom Finishes are Available to Match Interiors.

# Conceal-Alarm Series

FAFX



ETL listed to UL standards UL1971, UL1480, UL464

FIXTURE SCHEDULE	FIXTURE TYPE:	PROJECT NAME/REF:
APPROVAL:	CANDELA:	PROJECT LOCATION:

## Installation

This fixture utilizes a recessed flange for flush mounting in ceiling. The assembly adjusts to any ceiling thickness and is secured in place with concealed fasteners. The door, appliance, and motor drive assembly are inserted into the recessed enclosure. Wire connections to the unit are made through conduit raceway on the recessed enclosure. For complete installation and operation instructions, please refer to the instruction sheet included with each shipment.

## New Projects

For new projects, a single back box is mounted before the ceiling material is installed.

## Retrofit/Remodeling Projects

For retrofit/remodeling applications a multi-section (suffix RB) enclosure is available. See options and technical data section for details.

## Product Specifications

The fire notification appliance shall be Concealite Conceal-Alarm Series. The unit shall be ceiling mounted and will be controlled by the central fire system. Upon system activation, the door of the unit shall rotate 180 degrees and the fire notification appliance shall begin operation. Upon fire system shutdown, the door will rotate 180 degrees putting the appliance in the hidden or stored position. The standard unit shall be a white powder coat finish, and can be custom finished by factory, or in the field, using paint, wallpaper or applique. The unit shall interface seamlessly with any fire system and shall not affect or interfere with any diagnostic routines of the fire system. The unit shall be in conformance with NFPA 72 (National Fire Alarm Code).

## Limited Warranty

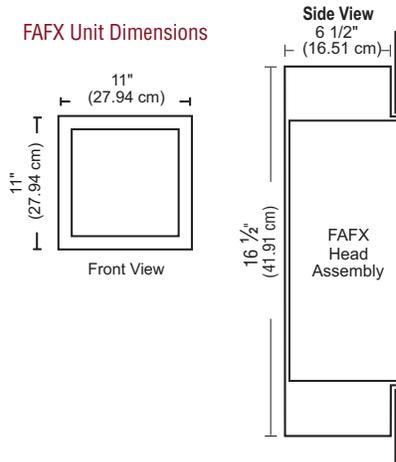
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### FAFX



**Note:**  
Unit requires finished opening of 10 1/4" H x 10 1/4" W.  
Unit depth of 6 1/2" allows for installation into ceilings.

### FAFX Unit Dimensions



Typical "Visible" Installation



FAFX "Invisible" Installation

## Ordering Information

Example Spec: FAFX-C-24-(device type)-(strobe setting)-(options)

	<b>FAFX</b>	<b>C</b>	<b>24</b>	<b>SSPK</b>	<b>110</b>	<b>OPTIONS</b>
Series	FAFX					
Type		C Ceiling				
Voltage			24 24 VDC			
Notification				SSPK Speaker/Strobe AS Horn/Strobe Combination A Horn C Chime S Strobe SPK Speaker		
Strobe Intensity						15 15 Candela 30 30 Candela 75 75 Candela 95 95 Candella 115 115 Candela 177 177 Candela OC Other Candela (Please Specify)
Options						TBAR T-Bar Mounting Kit RBFX Retro Fit Back Box CF Custom Finish (Specify 4 digit RAL #)



202 Elk Street, P.O. Box 160  
Elkton, SD 57026  
Phone: (605)542-4444  
Fax: (605)542-3333  
www.concealite.com

## Fixture Models

FA100

FA900

FAFX



## Operation Cycle

When activated, the signaling appliance begins operation, the Conceal-Alarm's door rotates 180 degrees, and the micro-switch disengages the motor. The door is held open by a magnetic clutch system that remains operational until the fire alarm panel is deactivated. Deactivating the alarm mode branch circuit disengages the magnetic clutch and the door returns to a closed position.

## Wiring Needs

Conceal-Alarm units use standard wiring practices, comparable to any alarm system. No additional wiring is necessary.

## Appliance Application

Conceal-Alarm utilizes Wheelock UL Listed fire alarm appliances, i.e., strobes, horns and strobe/horn combination units that operate with any fire system. Installation of optional units are dependent on the following guidelines.

- All Conceal-Alarm units come fitted with a factory fitted wheelock UL listed appliance. Appliances cannot be installed in the field.

## Strobes

Strobes are available in wall and ceiling mount. Candela rating must be specified prior to manufacture. Due to concerns that strobe lights flashing at various times in the same area can trigger health problems, the Conceal-Alarm units are compatible with standard fire system synchronous modules, which cause the strobes to pulse at the same time.

## Horns

The horn portion of the appliance can be set to provide either Continuous Horn or Code 3 Horn. The sound output can be set for High (HI) or Low (LO) dBA. Conceal-Alarm units with the horn feature are shipped with the default settings from the appliance manufacturer, unless requested otherwise.

## Speakers

Speakers may operate with a public address system for use by the fire department, as well as automated messages during emergency situations.

## Back Box Applications

The Conceal-Alarm can be installed in various back boxes depending on the specific requirements. The following back boxes are available:

- **R1** Use in a standard stud wall (FA-100)
- **R1-900** Use in standard stud wall (FA-900)
- **RB** Use in retrofit applications (FA-100)
- **RB-900** Use in retrofit applications (FA-900)
- **RFX** Standard new construction (FX)
- **RBFX** Use in retrofit applications (FX)
- **SM** For surface mount installation (FA-100 only)
- **C-Block** For concrete (cinder) block wall installation (FA-100 only)

For specific dimensions on these back boxes refer to the technical section of the Concealite catalog or view the Back Box technical sheet at [www.concealite.com](http://www.concealite.com).

## Finish

The standard Conceal-Alarm trim and door are white powder coat. As with all Concealite fixtures, custom colors, custom metals and custom finishes are available options. Please contact factory for custom finishes.

## Electrical Requirements

The table below will assist in planning voltage requirements for fire alarm systems:

Model	Voltage	Current Draw (mAmps)*
FA	16 VDC	600
FA	24 VDC	600
FA	33 VDC	600
FA	16 vFWR	600
FA	24 vFWR	600
FA	33 vFWR	600

\* To determine total voltage requirements, select the proper current draw for the Conceal-Alarm from the table above and add the current draw requirements specified by the manufacturer of the appliance to be used within the Conceal-Alarm fixture.

## Draw Requirements

Current draw requirements are available on the cut sheet for the device or on the web site of the manufacturer. Information can be viewed at:

**Cooper Wheelock**  
[www.cooperwheelock.com](http://www.cooperwheelock.com)

## Limited Warranty

All Concealite equipment is guaranteed against defects in materials and workmanship by the manufacturer for a period of three years from date of shipment under normal operations and proper use. Correction of all defects shall be by replacement or repair (at our discretion) and shall constitute fulfillment of all manufacturer's obligations.

Note: These specifications are subject to change

# SECURE-ALARM

## Secure-Alarm

Concealite has applied its egress lighting technology to a new product line for the security industry. Secure-Alarm provides a convenient and immediate method to alert critical executives and security personnel of a breach in the facility's secure environment. Upon activation by security personnel, Secure-Alarm will rotate 180 degrees and begin flashing. The flashing strobe can be mounted in the walls or ceiling of rooms or hallways and is only visible upon activation by security personnel.

### FEATURES

- Compact, completely self-contained units
- Interfaces with any security alarm system
- Units fit in standard stud wall
- Retrofit kits available for installation in existing walls or ceilings
- Vandal resistant
- Designed for wall or ceiling installations, including gypsum board, plaster, concrete, brick, or acoustical tile applications
- Standard white powder coat finish can be customized, no minimum order for manufacturing with customized paint, wallpaper, fabric, metals (bronze, pewter, brushed aluminum) or applying custom colors.
- Strobe light is available in different colors.
- UL Listed



### BENEFITS

In most architectural environments, security appliance devices are even more obtrusive than emergency lighting devices. Concealite has applied their egress lighting technology to security equipment in order to maintain design integrity and aesthetic beauty. Only when the security system is activated do the units become visible, rotating 180 degrees to begin operating. The result is a clean, almost invisible installation, that does not conflict with your interior. Secure-Alarm can be installed in the wall or ceiling and interfaces with any security system.

SECURE-ALARM

# SECURE-ALARM

## Installation Specifications

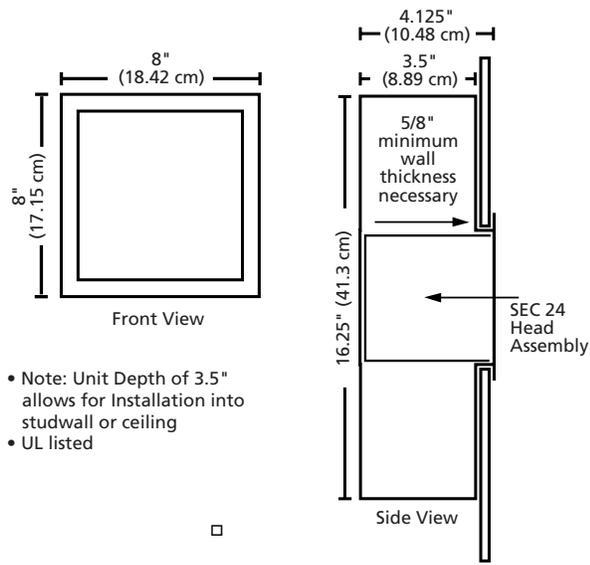
This fixture utilizes a recessed flange for flush mounting in either a wall or ceiling. This unit requires a 7.25" (18.42 cm) high x 6.75" (17.15 cm) wide opening in the wall or ceiling mounting location. For new projects, a single enclosure is provided. The single enclosure is mounted before the wall or ceiling material is installed. Wire connections to the unit are made through conduit knockouts on the recessed enclosure. The door, appliance, and motor drive assembly are inserted into the recessed enclosure. The assembly is then secured in place with 2 concealed bolts that allow for adjustment to the wall or ceiling thickness. For complete installation and operation instructions, please refer to the instruction sheet included with each shipment. For retrofits, a multi-section modular enclosure is available. See options and technical data section for details. A special back box and Conceal-Alarm frame are available for larger audio/visual devices. Contact the factory for more information.

## Product Specification

The security notification appliance shall be Concealite SEC 24. The unit shall be wall or ceiling mounted and will be controlled by the central security system. Upon system activation, the door of the unit shall rotate 180 degrees and the security notification appliance shall begin operation. Upon security system shutdown, the door will rotate 180 degrees putting the appliance in the hidden or stored position. The door and frame of the unit shall be field paintable or covered with wall paper or fabric. The unit shall fit in a standard stud wall and back boxes shall be available for any standard wall or ceiling material. The unit shall interface seamlessly with any security system and shall not affect or interfere with any diagnostic routines of the security system.

## Limited Warranty

All Concealite equipment is guaranteed against defects in materials and workmanship by the manufacturer for a period of three years from date of shipment under normal operations and proper use. Correction of all defects shall be by replacement or repair (at our option) and shall constitute fulfillment of all manufacturer's obligations.



## Ordering Information

	SEC 24	24	S	Suffix
<b>Series</b>	SEC 24			
<b>Voltage</b>	24 - 24 VDC			
<b>Notification</b>	S - Strobe SSPK - Speaker/Strobe			
<b>Options</b>	PT - Plaster Trim RB - Retro Fit Back Box SM - Surface Mount Enclosure CBLOCK - Cinder Block Back box TBAR - T-Bar Mounting Kit CF - Custom Finish CM - Custom Metal			



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Brighter.  
Blends.  
Brilliant.



Wet location fixtures are typically obtrusive, and interfere with architectural design. We understand that the exterior of a structure, in terms of aesthetics, is as important as the interior. True to form and function, the Hydro-Form offers the design community a beautiful "blend-in" solution for code required wet-location lighting. Concealite's Hydro-Form custom wet-location fixtures are available in a variety of finishes, or can be customized to blend in with exteriors. For more information, visit [www.concealite.com](http://www.concealite.com)

## Hydro-Form I & II

Exterior Wet Location Emergency Lighting

 (Self-Contained Battery System Included)

### Architectural Features

- Unit is available up to a 200 Watt output.
- Unique 100 Watt quartz halogen lamps 10x light output vs. anything else on the market.
- Decorative metal exterior housing and unique sealed fiberglass laminate interior containment system for complete wet location protection against dust, dirt, corrosive atmospheres and water spray (hose down).
- Custom colors, finishes, and textures available to match your exterior (standard fixture colors are bronze, white, and primed).
- Fully adjustable gasketed wet location aluminum heads with locking swivel.
- Maintenance-free lead calcium battery.
- Alternate battery types available please contact factory.
- 90 minutes of illumination standard. Alternate run times available please contact factory.
- Universal input 120/277 VAC.
- Operating temperature 32 degrees F to 104 degrees F (0 degrees C to 40 degrees C).  
Sub zero heater available.
- Fully automatic, temperature compensating, variable rate charger.
- Low voltage disconnect.
- Automatic brownout protection.
- AC lockout to reduce installation time.
- Self diagnostics is an available option.
- Sealed momentary test switch and AC ready light.
- Available option: Single or dual matching H Series remote head assemblies with mounting plate (12 or 120 Volts).
- NFPA 101.
- UL 924 wet location listed.



Mixed-Use Center



Custom colors, finishes, and textures are available to match and blend in with exteriors (Contact Factory).

# Hydro-Form Wet Location Emergency Lighting



BATTERY (Self-Contained Battery System Included)

## Installation

Mount the unit utilizing the holes indicated and the mounting hardware supplied. Designed for installation on most exterior surfaces including concrete, block, and brick. See instruction sheets for details.

## Illumination

The fully adjustable heads are UL listed for wet location applications. Specially designed high output halogen lamps are available in 20, 35, 50, 75, and 100 Watts. Concealite provides free point by point lighting layout service for code compliance. Contact your local Concealite representative for details.

## Product Specifications

The emergency lighting unit shall be Concealite Series HF and will conform to UL Standard 924 and be installed in accordance to Article 700 of the National Electrical Code. The unit shall consist of an aluminum exterior housing and unique sealed fiberglass NEMA 4X type laminate interior containment system for complete wet location protection against dust, dirt, corrosive atmospheres and water spray (hose down). The unit shall be supplied with one or more UL Standard 924 listed heads. The lighting head shall be fully adjustable gasketed wet location rated with locking swivel. The electronics shall include a fully automatic, temperature compensating variable rate charger. The unit shall include LVD and brownout circuits. The charger shall be rated at 120/277 VAC, 60 HZ (347 VAC optional) The unit shall have an integral test switch and pilot light. Upon the loss of utility power the unit's lamp(s) will energize. When utility power is restored, the lamps will extinguish. The maximum power draw will be no more than 15 Watts. When utility power is restored the charger will bring the battery back to full charge within UL Standard 924 time requirements.

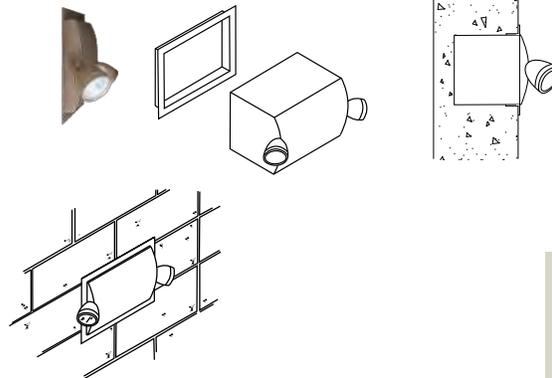
## Limited Warranty

All Concealite equipment is guaranteed against defects in materials and workmanship by the manufacturer for a period of three years from date of shipment under normal operations and proper use. Correction of all defects shall be by replacement or repair (at our discretion) and shall constitute fulfillment of all manufacturer's obligations.

**HYDRO-FORM I** 100 WATT TOTAL CAPACITY  
Dimensions  
9"H x 12 1/4"W x 9 1/8" Depth  
(22.86 cm H x 31.12 cm W x 23.17 cm Depth)

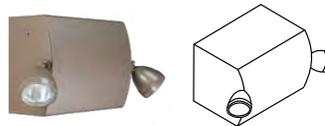
**HYDRO-FORM II** 200 WATT TOTAL CAPACITY  
Dimensions  
13"H x 16 3/8"W x 9 1/8" Depth  
(33.02 cm H x 41.59 cm W x 23.17 cm Depth)

### Semi-Recessed



**Note: SR**  
1" Wide Semi-Recessed Trim Mounting Kit option allows universal field adjustable depth up to 8" deep.

### Surface Mount



## Ordering Information

Series	HF	II	100	90	OPTIONS
<b>HYDRO-FORM</b>					
<b>Size</b>					
I					
II					
<b>High Output Lamps</b>					
20					
35					
50					
75					
100					
<b>Hours of Operation</b>					
90					
XX					
<b>Options</b>					
SD					Self-Diagnostic Charger & Monitoring System
TD120					15 Min Time Delay (120v)
TD277					15 Min Time Delay (277v)
220V					220v - 50Hz input transformer
H120					Battery Heater (120v)
H277					Battery Heater (277v)
NC					NiCad Battery Pack (Contact Factory)
PL					Pure Lead Battery Pack (Contact Factory)
CL					36" 3 Conductor Weatherproof Line Cord
SR					Semi-Recessed Trim Mounting Kit
RL					Remote Leads
CF					Custom Finish

## H Series Remote Fixtures

For additional remote installations, our powerful, stand-alone heads are available. To specify matching wet location remote heads, refer to our H Series spec sheet or contact Concealite for more info.

- The H Series remote fixtures are available in single or dual head units.
- Can be configured to operate from a wide variety of emergency and standard power sources.
- Heads are mounted to a custom plate with a gasket that fits a single gang electrical box.
- Heads come white, bronze, and prime as standard colors.
- Custom colors, finishes, and textures available.
- Unique high output, long life halogen lamps are available in 20, 35, 50, 75, and 100 Watts.
- Heads are available in both 12 and 120 VAC.
- Heads are UL 924 listed.



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#### CODE MANDATED INTERIOR EMERGENCY LIGHTING:

The emergency lighting system must be arranged to provide illumination automatically in the event of any interruption of normal lighting. Emergency lighting...shall be arranged to provide...illumination that is not less than an average of 1 ft-candle and, at any point, not less than 0.1 ft-candle, measured along the path of egress at floor level.

Life Safety Code ©- NFPA 101 © Sections 7.9.2.3 & 7.9.2.1 Emergency Lighting

Concealite's SuperNOVA fixtures are made of durable, impact-resistant steel housings with the highest light output on the market... up to 200 Watts! These interior fixtures are ideal where emergency lighting codes require expansive illumination such as large complexes, areas of assembly, or applications with high ceilings.

### SuperNOVA I & II

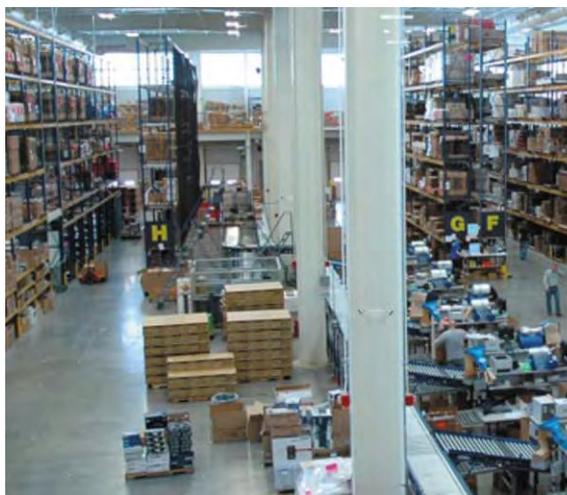
H Series

#### Aesthetics

The SuperNOVA is an attractive interior emergency lighting fixture for use in any large indoor areas such as supermarkets, dining halls, auditoriums, gymnasiums, cafeterias, community rooms, residential complexes and apartments, etc. The SuperNOVA provides powerful illumination that surpasses anything currently on the market.

#### Architectural Features

- **Custom Finishes** Neutral cream color paint standard finish, or fixtures can be field or custom factory painted (no minimum order for custom paint).
- Up to 30 foot mounting heights on walls, columns and ceilings.
- 12 Volt units with 100 and 200 Watt capacities.
- Heavy gauge steel cabinet.
- Fully adjustable aluminum halogen lamp heads with locking swivels.
- Maintenance free Lead-Calcium battery standard.
- Automatic temperature compensation, variable rate float charger standard.
- Automatic brownout protection.
- Low Voltage Disconnect (LVD) protects battery from deep discharge.
- Universal 120/277 VAC input.
- 90 minutes of emergency illumination.
- Operating temperature 32 degrees F to 104 degrees F (0 degrees C to 40 degrees C).
- Momentary test switch and AC ready pilot light.
- Self-diagnostics available.
- Meets NFPA 101.
- Listed to UL 924.



Warehouse Distribution Center

## 10x ILLUMINATION

Independently Tested



Custom colors, finishes, and textures to match interiors (Contact Factory).

Standard Color: Neutral cream powder coat.

# SuperNOVA I & II

## H Series



FIXTURE SCHEDULE	FIXTURE TYPE:	PROJECT NAME/REF:
APPROVAL:	LAMP TYPE:	PROJECT LOCATION:

### Installation

**Mounting:** Units are designed for mounting to any flat surface on a wall, column or ceiling by means of fastening through the back of the unit housing. Units may also be mounted by means of accessory mounting shelf.

**Wiring:** Knockouts are provided to decrease installation time. Surface wiring is also provided for by conduit knockouts in the top and sides of the unit housing.

### Illumination

The adjustable heads are UL listed. Specially designed high-output halogen lamps are available in 20, 35, 50, 75, and 100 watts. Concealite provides free point-by-point layout service for code compliance. Contact your local Concealite representative for details.

### Product Specifications

The emergency lighting unit shall be Concealite H Series SuperNOVA and will conform to UL924 and be installed in conformance of the National Electrical Code. The unit shall consist of a heavy duty aluminum cabinet. The unit shall be equipped with two aluminum fully adjustable, sealed heads. The electronics shall include a fully automatic temperature compensating variable rate charger, low voltage disconnect, and brown out circuits. The unit shall have a "Push to Test" switch and a "AC-ON" pilot light. Upon the loss of utility power the lamps will illuminate and operate for a minimum of ninety minutes or until utility power is restored; at which time the units' charger will bring the battery back to full charge within UL requirements.

### Limited Warranty

All Concealite equipment is guaranteed against defects in materials and workmanship by the manufacturer for a period of three years from date of shipment under normal operations and proper use. Correction of all defects shall be by replacement or repair (at our discretion) and shall constitute fulfillment of all manufacturer's obligations.



#### Unit Dimensions

**SuperNova I**  
 Depth 4.0" (10.16 cm) x  
 Width 13.5" (34.29 cm) x  
 Height 8.7" (22.10 cm)

**SuperNova II**  
 Depth 6.75" (17.15 cm) x  
 Width 18" (45.72 cm) x  
 Height 8.7" (22.10 cm)



IR Infrared Remote Test System Option Available

### SuperNova Ordering Information

Example Spec: HSN-II-100-90-SD-IR-S6-CF

Series	HSN	II	100	90	OPTIONS
H Series SuperNOVA					
Model Size					
II - 200 Watt Capacity					
I - 100 Watt Capacity					
High Output Lamps					
100 Watt - Two (2) 100 Watt Heads					
75 Watt - Two (2) 75 Watt Heads					
50 Watt - Two (2) 50 Watt Heads					
35 Watt - Two (2) 35 Watt Heads					
20 Watt - Two (2) 20 Watt Heads					
Hours of Operation					
90 - 1 1/2 Hours					
XX - Other Run Times Contact Factory					
Options					

- SD Self-Diagnostic Charger & Monitoring System**
- IR Infrared Remote Test System**
- TD120 15 Minute Time Delay 120 V
- TD277 15 Minute Time Delay 277 V
- 220V 220 V / 50 Hz Input Transformer
- S3 Mounting Shelf (Fits Super Nova I)
- S6 Mounting Shelf (Fits Super Nova II)
- WGI Wire Guard (Fits Super Nova I)
- WGII Wire Guard (Fits Super Nova II)
- TP Tamper Proof Screws
- H120 Battery Heater (120v)
- H277 Battery Heater (277v)
- CF Custom Finish (Standard Finish is Cream/Neutral)**

Note: These specifications are subject to change

### H Series Remote Head Fixtures



For additional remote installations, our powerful, stand-alone heads are available in single or dual head units. Heads are mounted to a custom plate with a gasket that fits a single gang electric box. For additional information on these remote fixtures, please refer to the H Series Spec Sheet, or contact Concealite.

### H Series Ordering Information

Example Spec: H-2-20-12-J BOX-W-LPM

Series	H	2	100	12	N4X	W	LPM
Heads							
1 Single Head							
2 Dual Head							
High Output Lamps							
20 20 Watt Head(s)							
35 35 Watt Head(s)							
50 50 Watt Head(s)							
75 75 Watt Head(s)							
100 100 Watt Head(s)							
Voltage							
12 12 VDC							
120 120 VAC							
Options							
N4X NEMA 4X Junction Box							
J-BOX NEMA 1 Junction Box							
Colors							
W White							
B Bronze							
CF Custom Paint Finish							
Lead Wires							
LPM Low Profile Mounting System (Includes 18 Foot of Continuous Leads)							
LPMXX Low Profile Mounting System with Custom Length Factory Supplied Lead Length (Ex.: H2-100-12-N4X-B-LPM35) = 35 Foot Lead Length							

Note: These specifications are subject to change



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Concealite's H Series Remote Head fixtures are made of durable, impact-resistant steel housings with the highest light output on the market... **up to 200 Watts!** These interior remote fixtures are ideal where emergency lighting codes require expansive illumination such as large complexes, areas of assembly, or applications with high ceilings.

## H Series Remote Head Fixtures

### Aesthetics

For remote installations, our powerful, stand-alone H Series Remote Fixture heads are available. The H Series remote high-powered halogen lamps provide up to 100 watts output each, surpassing anything currently on the market, and allowing for 20-30 feet above ground wall or vertical support pillar installations.

### Architectural Features

- The H Series remote fixtures are available in single or dual head units.
- Can be configured to operate from a wide variety of emergency and standard power sources.
- Heads are mounted to a custom plate with a gasket that fits a single gang electrical box.
- Heads come white and bronze as standard colors.
- Custom colors, finishes, and textures available.
- Unique high output, long life halogen lamps are available in 20, 35, 50, 75, and 100 Watts.
- Heads are available in both 12 VDC and 120 VAC.
- Heads are UL 924 listed.



Commercial Office Building



Single or Dual Head Remote Fixtures  
Custom Paint Finishes Available

# H Series Remote Heads

FIXTURE SCHEDULE	FIXTURE TYPE:	PROJECT NAME/REF:
APPROVAL:	LAMP TYPE:	PROJECT LOCATION:

## Mounting

Units are designed for mounting to any flat wall surface in exterior or interior wet location environments.

## Wiring

Route appropriate WP connections via WP junction box conduit raceway system.

LPM Option: Low Profile Mounting system, includes 18 foot continuous leads or specify custom length leads.

## Illumination

The adjustable heads are UL listed. Specially designed high-output halogen lamps are available in 20, 35, 50, 75, and 100 watts. Concealite provides free point-by-point layout service for code compliance. Contact your local Concealite representative for details.

## Product Specifications

The H Series remote head shall be constructed from aluminum and have an electrostatic baked powder coat finish. The head will be equipped with a locking gasketed swivel and have 1/2" fitting at the end of the swivel with a lock nut to mate with a gasketed custom wall plate. The head shall be available with 20, 35, 50, 75, & 100 Watt high output halogen lamps. These lamps shall have a minimum 2000 hour lamp life. The head shall have polished aluminum reflector and a gasketed glass lens. The head shall have a separate UL924 listing. The head assembly shall be rated for NEMA 4X areas.

## Limited Warranty

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## H Series Remote Heads

Backplate dimensions measure 4" H x 2 1/2" W



## Available Remote Power Options

**Note:** To order AC inverters or DC central battery systems shown below, contact Concealite for more info.



### 12v DC Central Battery Unit

- Completely self-contained
- Models operate for up to four hours
- Fully automatic solid-state charger
- Automatic battery protection (LVD)
- Models for loads up to 300 watts output
- Die-formed heavy 18 gauge steel cabinet
- Dual 120 or 277 VAC input, field selectable
- 1-1/2 hours of light to an end battery voltage of 87-1/2% of normal voltage
- Listed to UL 924
- See Central Battery Systems cut sheet for more details.



### 120v AC Inverter

- 250 Watt AC system for support of multiple remote loads.
- Universal 120 or 277 VAC input/output.
- Normally-on and/or normally off load output.
- Self-diagnostic monitoring available.
- DC overload and short circuit protection.
- Long life sealed lead calcium batteries standard.
- Unit will support fixtures up to 1000 feet away .
- UL 924 listed.
- See AC Inverter cut sheet for more details.

## Ordering Information

	H	2	100	12	N4X	W	LPM
Series							
H							
Heads							
1	Single Head						
2	Dual Head						
High Output Lamps							
20	20 Watt Head(s)						
35	35 Watt Head(s)						
50	50 Watt Head(s)						
75	75 Watt Head(s)						
100	100 Watt Head(s)						
Voltage							
12	12 VDC						
120	120 VAC						
Options							
N4X	NEMA 4X Junction Box						
J-BOX	NEMA 1 Junction Box						
Colors							
W	White						
B	Bronze						
CF	Custom Paint Finish						
Lead Wires							
LPM	Low Profile Mounting System (Includes 18 Foot of Continuous Leads)						
LPMXX	Low Profile Mounting System with Custom Length Factory Supplied Lead Length (Example: H2-100-12-N4X-B-LPM35) = 35 Foot Lead Length						

Note: These specifications are subject to change



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Fax: (605)542-3333  
www.concealite.com

# SuperNOVA™ by Concealite

(100 W HO, 2000 Lumens Per Head / 1.35 Average Foot Candle Light Output)

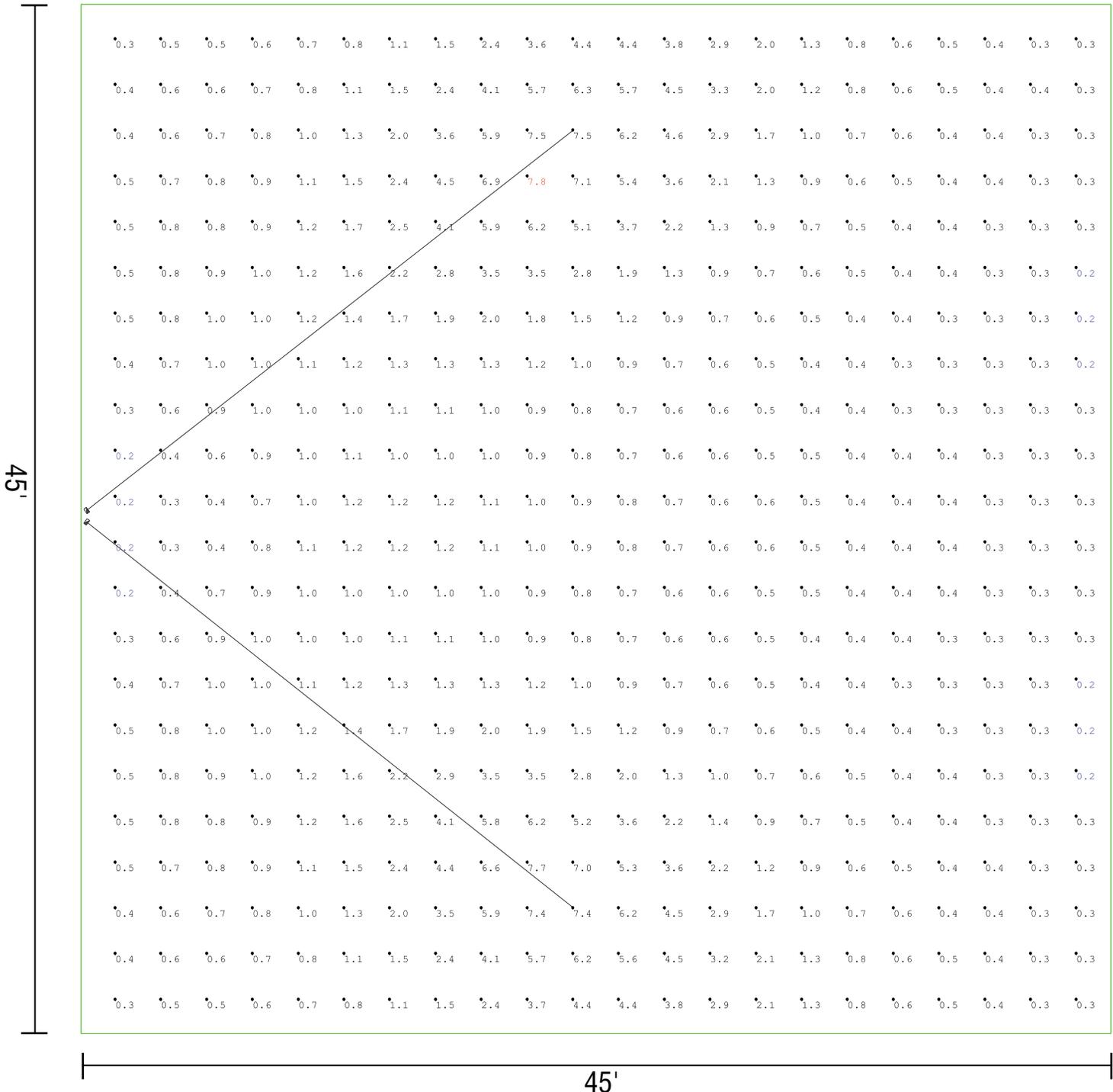
Luminaire Location Summary						
LumNo	Label	X	Y	Z	Orient	Tilt
1	100T4Q 12V	0.25	22.875	20	38.017	53.464
2	100T4Q 12V	0.25	22.375	20	321.561	53.617

Luminaire Schedule						
Symbol	Qty	Label	Arrangement	Lumens	LLF	Description
	2	100T4Q 12V	SINGLE	2000	1.000	SuperNova

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	
Super Nova 11_Floor	Illuminance	Fc	1.35	7.8	0.2	6.75	39.00	

## Concealite SuperNOVA 100 Watt High-Output Halogen Lamps

## Point by Point Data Results Based on 2,025 SF Space



# Market Comparison

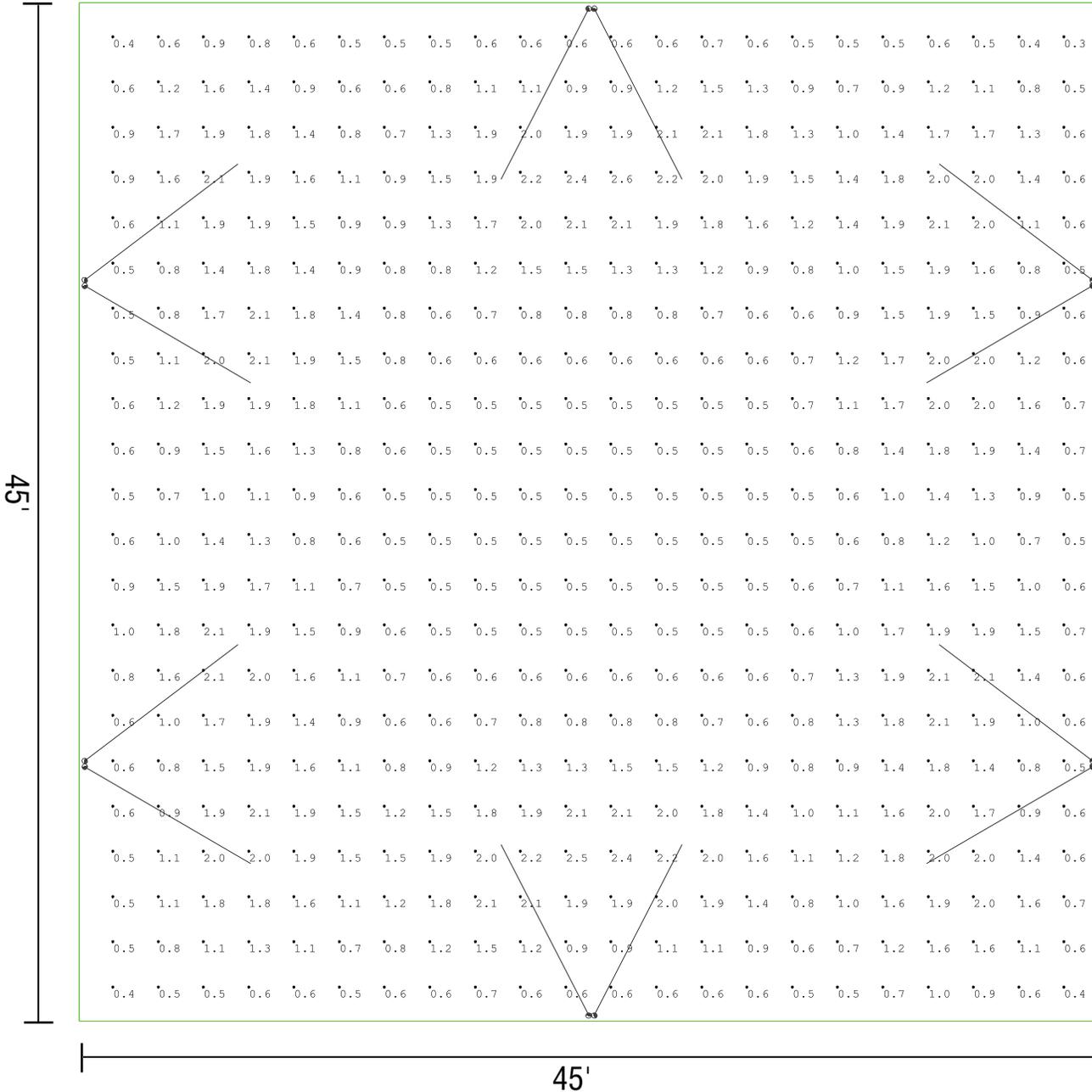
(20 W, 238 Lumens Per Head / 1.12 Average Foot Candle Light Output)

Luminaire Schedule						
Symbol	Qty	Label	Arrangement	Lumens	LLF	Description
	12	PP - Center	SINGLE	238	1.000	INDUSTRIAL NEMA

Luminaire Location Summary						
LumNo	Label	X	Y	Z	Orient	Tilt
1	PP - Center	0.25	11.5	20	37.185	23
2	PP - Center	0.25	11.25	20	329.621	23
3	PP - Center	0.25	32.75	20	37.185	23
4	PP - Center	0.25	32.5	20	329.621	23
47	PP - Center	22.5	44.75	20	242.819	23
48	PP - Center	22.75	44.75	20	297.181	23
53	PP - Center	22.5	0.25	20	117.181	23
54	PP - Center	22.75	0.25	20	62.819	23
43	PP - Center	44.75	11.5	20	142.815	23
44	PP - Center	44.75	11.25	20	210.379	23
45	PP - Center	44.75	32.75	20	142.815	23
46	PP - Center	44.75	32.5	20	210.379	23

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Competition_Floor	Illuminance	Fc	1.12	2.6	0.3	3.73	8.67

Competitors' 20 Watt Lamps Point by Point Data Results Based on 2,025 SF Space



# SuperNOVA™ by Concealite

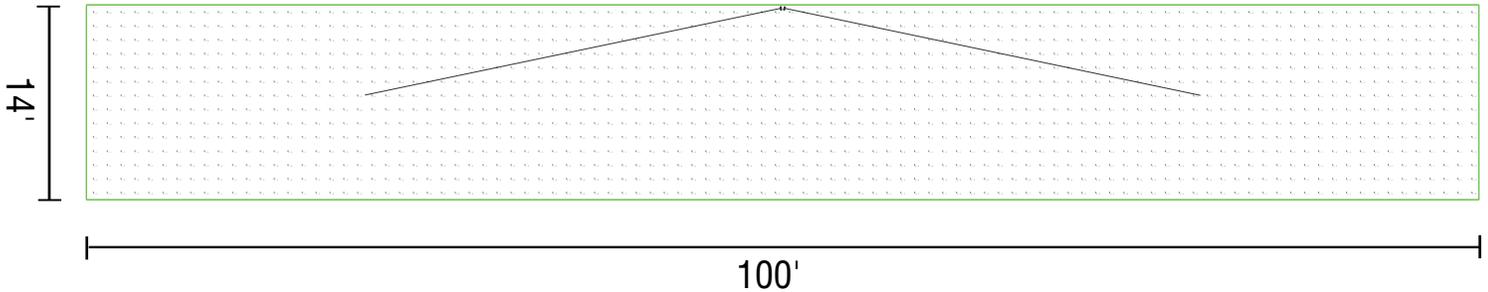
(100 W HO, 2000 Lumens Per Head / 1.74 Average Foot Candle Light Output)

Luminaire Location Summary						
LumNo	Label	X	Y	Z	Orient	Tilt
1	100T4Q 12V	49.875	13.75	9	191.779	73.569
2	100T4Q 12V	50.125	13.75	9	348.184	73.571

Luminaire Schedule						
Symbol	Qty	Label	Arrangement	Lumens	LLF	Description
	2	100T4Q 12V	SINGLE	2000	1.000	SuperNova Twin 100 Watt Lamps

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Room_Floor	Illuminance	Fc	1.74	5.9	0.4	4.35	14.75

Concealite SuperNOVA 100 Watt High-Output Halogen Lamps Point by Point Data Results Based on 14' x 100' Path of Egress Corridor:



## Market Comparison

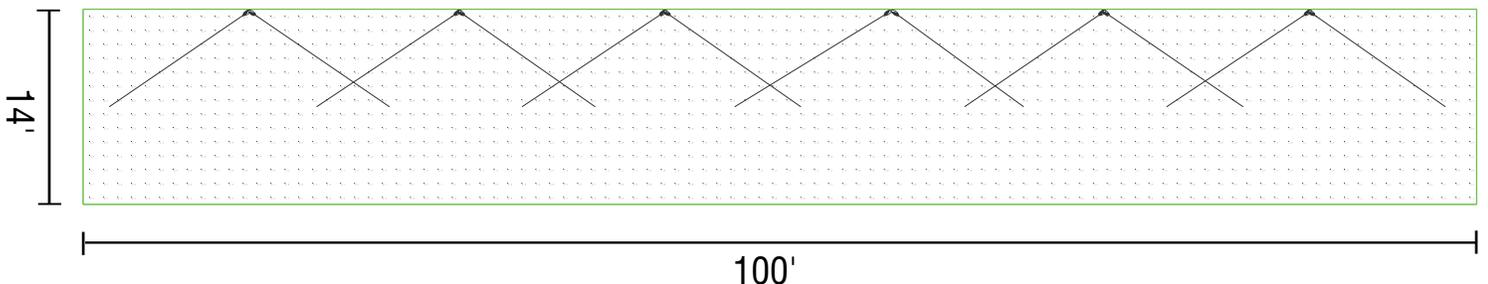
(20 W, 238 Lumens Per Head / 1.61 Average Foot Candle Light Output)

Luminaire Location Summary						
LumNo	Label	X	Y	Z	Orient	Tilt
1	PP - Center	11.75	13.75	9	214.354	53.042
2	PP - Center	12.125	13.75	9	325.646	53.042
7	PP - Center	87.875	13.75	9	213.69	53.513
8	PP - Center	88.125	13.75	9	324.958	52.564
3	PP - Center	26.875	13.75	9	213.69	53.513
4	PP - Center	27.125	13.75	9	324.958	52.564
5	PP - Center	73.125	13.75	9	214.354	53.042
6	PP - Center	73.375	13.75	9	325.646	53.042
11	PP - Center	41.625	13.75	9	213.69	53.513
12	PP - Center	41.875	13.75	9	324.958	52.564
9	PP - Center	57.75	13.75	9	211.535	55.11
10	PP - Center	58.25	13.75	9	323.881	51.834

Luminaire Schedule						
Symbol	Qty	Label	Arrangement	Lumens	LLF	Description
	12	PP - Center	SINGLE	238	1.000	INDUSTRIAL NEMA

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Competition_Floor	Illuminance	Fc	1.61	5.6	0.4	4.03	14.00

Competitors' 20 Watt Lamps Point by Point Data Results Based on 14' x 100' Path of Egress Corridor:



SuperNOVA (2000 Lumens Per Head / 1.74 Average Foot Candle Light Output) vs. Market Comparison (238 Lumens Per Head / 1.61 Average Foot Candle Light Output)

Egress.  
Emergency.  
Essential.



### CODE MANDATED EXTERIOR EMERGENCY LIGHTING:

Means of Egress Illumination Between the Termination of the Exit and a Public Way  
Life Safety Code® – NFPA 101® Section 3.3.161 Means of Egress Section 3.3.204 Public Way

## Hydro-Lite (HL) Series

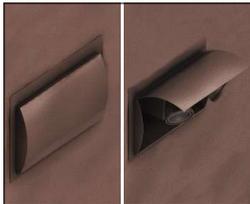


Offering the Highest Light Output in the Industry!

Wet location fixtures are typically obtrusive and interfere with architectural design. We understand that the exterior of a structure, in terms of aesthetics, is as important as the interior. Concealite has now applied their **concealed lighting technology** to their latest innovation in exterior wet location emergency fixtures...**the Hydro-Lite Series**. True to form and function, we offer the design community a beautiful and powerful "blend-in" solution for Code required wet location lighting. For more information, visit [www.concealite.com](http://www.concealite.com)

### HL Series Wet-Location Lighting Design Product Selector

Up to 200 Watt Output

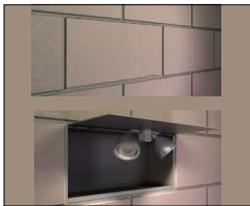


#### HL REM

Compact and powerful emergency egress lighting with a customizable metal exterior housing. Surface or semi-recessed options available. High output quartz halogen lamps available in 20, 35, 50, 75 and 100 watt.



REM (Remote Power Required) ETL US Listed UL 924. Patent Pending.



#### HL C-Block REM

A customizable enclosure that installs in the place of a standard cinder block allowing for a completely flush appearance, and eliminating the need for special cutting and cement work. High output quartz halogen lamps available in 20, 35, 50, 75 and 100 watt.



REM (Remote Power Required) ETL US Listed UL 924. Patent Pending.



#### HL I

Low-profile emergency egress lighting with a customizable metal exterior housing. Surface or semi-recessed options available. High output quartz halogen lamps available in 20, 35 and 50 watt.



BATTERY (Self-Contained Battery System Included) ETL US Listed UL 924. Patent Pending.



#### HL II

Low-profile emergency egress lighting with a customizable metal exterior housing. Surface or semi-recessed options available. High output quartz halogen lamps available in 75 and 100 watt.



BATTERY (Self-Contained Battery System Included) ETL US Listed UL 924. Patent Pending.

Concealed Wet Location Lighting that Blends into Exteriors

# HL REM

## Compact & Powerful

### Only 6" H x 12" W



#### CODE MANDATED EXTERIOR EMERGENCY LIGHTING:

Means of Egress Illumination Between the Termination of the Exit and a Public Way  
Life Safety Code® – NFPA 101® Section 3.3.161 Means of Egress Section 3.3.204 Public Way

#### Hydro-Lite Series Listed UL 924

##### Aesthetics

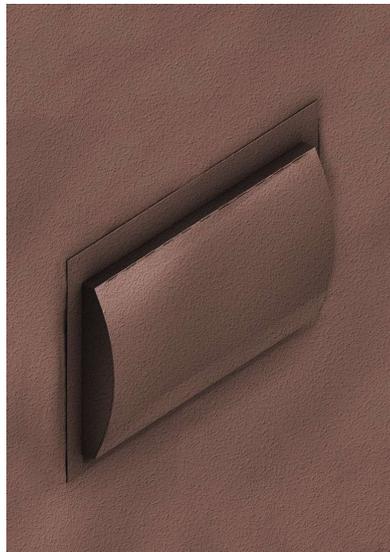
Wet location fixtures are typically obtrusive and interfere with architectural design. We understand that the exterior of a structure, in terms of aesthetics, is as important as the interior. Concealite has now applied their concealed lighting technology to their latest innovation in exterior emergency fixtures...the **Hydro-Lite Series**. True to form and function, we offer the design community a beautiful "blend-in" solution for Code required wet location lighting.

##### HL REM Architectural Features

- Unit is available up to a 200 watt output.
- Unique 100 watt high output quartz halogen lamps vs. typical 7.2 watt lamps.
- High output quartz lamps are available in 20, 35, 50, 75 and 100 watts.
- Power door unit offers a decorative solution with a customizable metal housing that is vandal resistant.
- Available to accept 12 VDC, 120 VAC or 277 VAC emergency power (please specify).
- Sealed piston drive system for maximum reliability and long life.
- Designed to blend into exterior finishes. Standard factory applied industrial grade powder coated finish (ready for field paint). Factory applied custom colors available.
- Fully adjustable gasketed wet location aluminum fixture heads with locking swivel.
- Listed UL 924.

## HL REM

Decorative + the Power to Perform = Compliance without Compromise!



# Hydro-Lite REM Series



REM (Remote Power Required) ETL Listed UL 924

## Installation

Mount the unit utilizing the holes indicated and the mounting hardware supplied. Designed for installation on exterior surfaces including concrete, block, and brick. Units require a four wire circuit to Concealite's Emergency Power Stations. Refer to our separate HL REM instruction sheet for more information.

## Illumination

The fully adjustable heads are UL 924 listed for wet location applications. Specially designed high-output halogen lamps are available in 20, 35, 50, 75, and 100 watts. Concealite provides free point-by-point layout service for Code compliance. Contact your local Concealite representative for details.

## Product Specifications

The emergency lighting unit shall be Concealite Series Hydro-Lite HL REM and will be installed in accordance to Article 700 of the National Electrical Code. The unit shall consist of a metal exterior housing and integral powered door with concealed lamps. The unit shall be supplied with two UL#924 listed heads. The heads shall be fully adjustable gasketed wet location rated with locking swivel. Upon the loss of utility power, the door on the front of the unit will open exposing the lamps which will then illuminate. The maximum power draw for a single emergency power station unit is 25 watts. When utility power is restored, the lamps will extinguish and the door will close.

## Limited Warranty

All Concealite equipment is guaranteed against defects in materials and workmanship by the manufacturer for a period of three years from date of shipment under normal operations and proper use. Correction of all defects shall be by replacement or repair (at our discretion) and shall constitute fulfillment of all manufacturer's obligations.

## Semi-Recessed Option

Wet Location. Wall Mount Only.



**HL REM**  
**Dimensions**  
6 1/2" H x 12" W x 6 1/2" D  
(16.51 cm H x 30.48 cm W x 16.51 cm D)



Option: SR  
Semi-Recessed  
Trim Mounting Kit



**Semi-Recessed Trim**  
Dimensions 1"H x 1"W Frame  
(2.54 cm x 2.54 cm)  
**Note:** Unit requires finished opening of 7" H x 12.5" W (17.78 cm x 31.75 cm). Maximum Semi-Recessed Depth for Installation is 5".

## Surface Mount

Wet Location. Wall Mount Only.



(4) #8 CU AWG to Concealite's  
Emergency Power Station  
or  
(6) #8 CU AWG for IR  
Remote Test Option

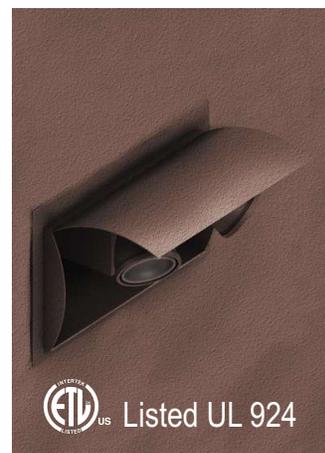
Determine conductor size based  
on maximum 2% voltage  
drop for 12 VDC loads.

Concealite Emergency Power Station  
Central Battery Unit  
(12VDC output) or  
Inverter System  
(120 VAC or 277 VAC output)

## Ordering Information

Example Spec: HL-REM-100-12-SR-CF-CB3 300XC

	HL	REM	100	12	OPTIONS	C12 300XC
<b>Series</b>	HYDRO-LITE					
<b>Model</b>	REM					
<b>High Output Lamps</b>	100 Two (2) 100 Watt Heads 75 Two (2) 75 Watt Heads 50 Two (2) 50 Watt Heads 35 Two (2) 35 Watt Heads 20 Two (2) 20 Watt Heads					
<b>Emergency Power</b>	12 12 VDC 120 120 VAC 277 277 VAC					
<b>Options</b>	SR Semi-Recessed Trim Mounting Kit IR Infrared Remote Test System CF Custom Finish (Specify 4 digit RAL #)					
<b>Emergency Power Station Systems</b>	C12 100XC 12VDC Central Battery Unit, 100w, 90 minute C12 200XC 12VDC Central Battery Unit, 200w, 90 minute C12 300XC 12VDC Central Battery Unit, 300w, 90 minute CPCF 250XC 120/277 VAC Inverter Unit, 250w, 90 minute GEN For generator by others – Requires two circuit monitoring (emergency and normal power). Includes door control processor system					



ETL Listed UL 924



202 Elk Street, P.O. Box 160  
Elkton, SD 57026  
Phone: (605)542-4444  
Fax: (605)542-3333  
www.concealite.com

# HL C-Block Cinder Block Applications Decorative Solution



## CODE MANDATED EXTERIOR EMERGENCY LIGHTING:

Means of Egress Illumination Between the Termination of the Exit and a Public Way  
Life Safety Code® – NFPA 101® Section 3.3.161 Means of Egress Section 3.3.204 Public Way

Hydro-Lite Series    Listed UL 924

### Aesthetics

Wet location fixtures are typically obtrusive and interfere with architectural design. We understand that the exterior of a structure, in terms of aesthetics, is as important as the interior. Concealite has now applied their concealed lighting technology to their latest innovation in exterior emergency fixtures...the **Hydro-Lite Series**. True to form and function, we offer the design community a beautiful "blend-in" solution for Code required wet location lighting.

### C-Block REM Architectural Features

- Unit is available up to a 200 watt output.
- Unique 100 watt high output quartz halogen lamps vs. typical 7.2 watt lamps.
- High output quartz lamps are available in 20, 35, 50, 75 and 100 watts.
- Power door unit offers a decorative solution with a customizable metal housing that is vandal resistant.
- Provides a customizable enclosure that has the same dimension as a standard cinder block, eliminating the need for special cutting and cement work.
- Available to accept 12 VDC, 120 VAC or 277 VAC emergency power (please specify).
- Sealed Piston Drive system for maximum reliability and long life.
- Heavy solid steel construction and solid continuous stainless steel hinge.
- Standard finish is primed (ready to paint). Custom colors, finishes, and textures available.
- Fully adjustable gasketed wet location aluminum heads with locking swivel.
- Listed UL 924.

## HL C-Block REM

Decorative + the Power to Perform = Compliance without Compromise!



# Hydro-Lite C-Block REM Series



REM (Remote Power Required) ETL<sub>us</sub> Listed UL 924

## Installation

The enclosure has the same dimensions as a standard cinder block, eliminating the need for special cutting and cement work. Designed for installation into concrete block. Units require a four wire circuit to Concealite's Emergency Power Stations. Refer to our separate HL REM instruction sheet for more information.

## Illumination

The fully adjustable heads are UL 924 listed for wet location applications. Specially designed high-output halogen lamps are available in 20, 35, 50, 75, and 100 watts. Concealite provides free point-by-point layout service for Code compliance. Contact your local Concealite representative for details.

## Product Specifications

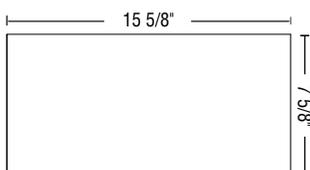
The emergency lighting unit shall be Concealite Series Hydro-Lite HL C-Block REM and shall be installed in accordance to Article 700 of the National Electrical Code. The unit shall consist of a metal exterior housing and integral powered door with concealed lamps. The unit shall be supplied with two UL Standard #924 listed heads. The heads shall be fully adjustable gasketed wet location rated with locking swivel. Upon the loss of utility power, the door on the front of the unit will open exposing the lamps which will then illuminate. The maximum power draw for a single emergency power station unit is 25 watts. When utility power is restored, the lamps will extinguish and the door will close.

## Limited Warranty

All Concealite equipment is guaranteed against defects in materials and workmanship by the manufacturer for a period of three years from date of shipment under normal operations and proper use. Correction of all defects shall be by replacement or repair (at our discretion) and shall constitute fulfillment of all manufacturer's obligations.

## HL C-Block REM

Wet Location.



### HL C-Block REM

#### Dimensions

7 5/8" H x 15 5/8" W x 5 1/2" D  
(19.37 cm H x 39.69 cm W x 13.97 cm D)



(4) #8 CU AWG to Concealite's Emergency Power Station or  
(6) #8 CU AWG for IR Remote Test Option

Determine conductor size based on maximum 2% voltage drop for 12 VDC loads.

Concealite Emergency Power Station Central Battery Unit (12VDC output) or Inverter System (120 VAC or 277 VAC output)

## Ordering Information

Example Spec: HL-CBLOCK - 100 - 12 - CF - CB3 300XC

	HL	CBLOCK	100	12	OPTIONS	C12 300XC										
<b>Series</b>	HYDRO-LITE															
<b>Model</b>	CBLOCK															
<b>High Output Lamps</b>	<table border="0"> <tr> <td>100</td> <td>Two (2) 100 Watt Heads</td> </tr> <tr> <td>75</td> <td>Two (2) 75 Watt Heads</td> </tr> <tr> <td>50</td> <td>Two (2) 50 Watt Heads</td> </tr> <tr> <td>35</td> <td>Two (2) 35 Watt Heads</td> </tr> <tr> <td>20</td> <td>Two (2) 20 Watt Heads</td> </tr> </table>						100	Two (2) 100 Watt Heads	75	Two (2) 75 Watt Heads	50	Two (2) 50 Watt Heads	35	Two (2) 35 Watt Heads	20	Two (2) 20 Watt Heads
100	Two (2) 100 Watt Heads															
75	Two (2) 75 Watt Heads															
50	Two (2) 50 Watt Heads															
35	Two (2) 35 Watt Heads															
20	Two (2) 20 Watt Heads															
<b>Emergency Power</b>	<table border="0"> <tr> <td>12</td> <td>12 VDC</td> </tr> <tr> <td>120</td> <td>120 VAC</td> </tr> <tr> <td>277</td> <td>277 VAC</td> </tr> </table>						12	12 VDC	120	120 VAC	277	277 VAC				
12	12 VDC															
120	120 VAC															
277	277 VAC															
<b>Options</b>	<p><b>IR</b> Infrared Remote Test System  <b>CF</b> Custom Finish (Specify 4 digit RAL #)</p>															
<b>Emergency Power Station Systems</b>	<table border="0"> <tr> <td>C12 100XC</td> <td>12VDC Central Battery Unit, 100w, 90 minute</td> </tr> <tr> <td>C12 200XC</td> <td>12VDC Central Battery Unit, 200w, 90 minute</td> </tr> <tr> <td>C12 300XC</td> <td>12VDC Central Battery Unit, 300w, 90 minute</td> </tr> <tr> <td>CPCF 250XC</td> <td>120/277 VAC Inverter Unit, 250w, 90 minute</td> </tr> <tr> <td>GEN</td> <td>For generator by others - Requires two circuit monitoring (emergency and normal power). Includes door control processor system</td> </tr> </table>						C12 100XC	12VDC Central Battery Unit, 100w, 90 minute	C12 200XC	12VDC Central Battery Unit, 200w, 90 minute	C12 300XC	12VDC Central Battery Unit, 300w, 90 minute	CPCF 250XC	120/277 VAC Inverter Unit, 250w, 90 minute	GEN	For generator by others - Requires two circuit monitoring (emergency and normal power). Includes door control processor system
C12 100XC	12VDC Central Battery Unit, 100w, 90 minute															
C12 200XC	12VDC Central Battery Unit, 200w, 90 minute															
C12 300XC	12VDC Central Battery Unit, 300w, 90 minute															
CPCF 250XC	120/277 VAC Inverter Unit, 250w, 90 minute															
GEN	For generator by others - Requires two circuit monitoring (emergency and normal power). Includes door control processor system															



ETL<sub>us</sub> Listed UL 924



202 Elk Street, P.O. Box 160  
Elkton, SD 57026  
Phone: (605)542-4444  
Fax: (605)542-3333  
www.concealite.com

# HL I & II Slim Profile Self-Contained Power



## CODE MANDATED EXTERIOR EMERGENCY LIGHTING:

Means of Egress Illumination Between the Termination of the Exit and a Public Way

Life Safety Code® – NFPA 101® Section 3.3.161 Means of Egress Section 3.3.204 Public Way

### Hydro-Lite Series Listed UL 924

#### Aesthetics

Wet location fixtures are typically obtrusive and interfere with architectural design. We understand that the exterior of a structure, in terms of aesthetics, is as important as the interior. Concealite has now applied their concealed lighting technology to their latest innovation in exterior emergency fixtures...the **Hydro-Lite Series**. True to form and function, we offer the design community a beautiful "blend-in" solution for Code required wet location lighting.

#### HL I and HL II Architectural Features

- Unit is available up to a 200 watt output.
- Unparalleled 100 watt high output quartz halogen lamps vs. typical 7.2 watt lamps.
- Customizable metal housing that is both decorative, and vandal-resistant.
- Designed to blend into exterior finishes. Standard factory applied industrial grade powder coated finish (ready for field paint). Factory applied custom colors available.
- Sealed fiberglass laminate NEMA 4X interior containment enclosure system for complete wet location protection against dust, dirt, corrosive atmospheres and water spray (hose down).
- Fully adjustable gasketed wet location aluminum fixture heads with locking swivel.
- Maintenance-free lead calcium battery.
- 90 minutes of illumination standard. Alternate run times available, please contact factory.
- Universal input 120/277 VAC.
- Operating temperature 32 degrees F to 104 degrees F (0 degrees C to 40 degrees C). Sub-zero heater available.
- Fully automatic, temperature compensating, variable rate charger.
- Low voltage disconnect.
- Automatic brownout protection.
- Self diagnostics is an available option.
- Listed UL 924.

### Hydro-Lite HL I & HL II

Decorative + the Power to Perform = Compliance without Compromise!



# Hydro-Lite HL I & HL II Series

 BATTERY (Self-Contained Battery System Included)  Listed UL 924

## Installation

Mount the unit utilizing the holes indicated and the mounting hardware supplied. Designed for installation on exterior surfaces including concrete, block, and brick. See instruction sheets for details.

## Illumination

The fully adjustable heads are UL 924 listed for wet location applications. Specially designed high-output halogen lamps are available in 50, 75, and 100 watts. Concealite provides free point-by-point layout service for Code compliance. Contact your local Concealite representative for details.

## Product Specifications

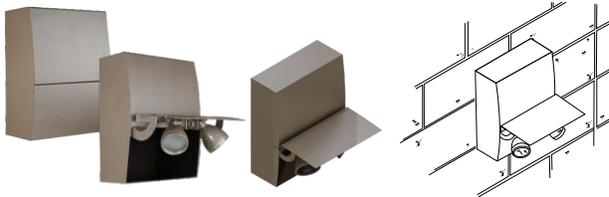
The emergency lighting unit shall be Concealite Series Hydro-Lite HL and will be installed in accordance to Article 700 of the National Electrical Code. The unit shall consist of a metal exterior housing and unique sealed fiberglass NEMA 4X rated laminate interior containment system for complete wet location protection against dust, dirt, corrosive atmospheres and water spray (hose down). The unit shall be supplied with two UL 924 listed heads. The heads shall be fully adjustable gasketed wet location rated with locking swivel. The electronics shall include a fully automatic, temperature compensating variable rate charger. The unit shall include LVD and brownout circuits. The charger shall be rated at 120/277 VAC, 60 HZ (347 VAC optional) The unit shall have an integral test switch and pilot light. Upon the loss of utility power, the door on the front of the unit will open exposing the lamps which will then illuminate. When utility power is restored, the lamps will extinguish and the door will close. The maximum power draw will be no more than 23 watts. When utility power is restored the charger will bring the battery back to full charge within UL Standard #924 time requirements.

## Limited Warranty

All Concealite equipment is guaranteed against defects in materials and workmanship by the manufacturer for a period of three years from date of shipment under normal operations and proper use. Correction of all defects shall be by replacement or repair (at our discretion) and shall constitute fulfillment of all manufacturer's obligations.

## HL I & II Surface Mount

Wall Mount Only. Wet Location/NEMA 4X



**HL I**  
**Dimensions**  
15 1/2" H x 12 1/4" W x 9 1/4" D (39.37 cm H x 31.11 cm W x 23.49 cm D)

**HL II**  
**Dimensions**  
19 1/2" H x 16 1/2" W x 9 1/4" D (49.53 cm H x 41.91 cm W x 23.49 cm D)

## HL I & II Semi-Recessed Option

Wall Mount Only. Wet Location/NEMA 4X



Option: SR  
Semi-Recessed  
Trim Mounting Kit

**HL I**  
**Semi-Recessed Trim**  
Dimensions 1" Frame (2.54 cm),  
1" Depth (2.54 cm)  
**Note:** Unit requires finished opening of 16" H x 12 3/4" W (40.64 cm x 32.39 cm)

**HL II**  
**Semi-Recessed Trim**  
Dimensions 1" Frame (2.54 cm),  
1" Depth (2.54 cm)  
**Note:** Unit requires finished opening of 20" H x 17" W (50.80 cm x 43.18 cm)

## Ordering Information

	HL	II	100	90	OPTIONS
<b>Series</b>	HYDRO-LITE				
<b>Model Size</b>	II 200 Watt Capacity I 100 Watt Capacity				
<b>High Output Lamps</b>	100 Two (2) 100 Watt Heads 75 Two (2) 75 Watt Heads 50 Two (2) 50 Watt Heads				
<b>Hours of Operation</b>	90 1 1/2 Hours XX Other Run Times Contact Factory				
<b>Options</b>					

- SD** Self-Diagnostic Charger & Monitoring System
- SR** Semi-Recessed Trim Mounting Kit
- IR** Infrared Remote Test System
- TD-120** 15 Minute Time Delay 120 V
- TD-277** 15 Minute Time Delay 277 V
- 220V** 220 V / 50 Hz Input Transformer
- H-120** Battery Heater 120 V
- H-277** Battery Heater 277 V
- NC** NiCad Battery Pack (Contact Factory)
- CL** 36" 3-Conductor Weatherproof Line Cord
- TP** Tamper Proof Screws
- CF** Custom Finish (Specify 4 digit RAL #)



**Example Spec for HL II**  
HL-II - 100 - 90 - SD - SR - CF

 Listed UL 924

 **CONCEALITE**  
LIFE SAFETY PRODUCTS  
A Division of Gow Industries, Inc.

202 Elk Street, P.O. Box 160  
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Phone: (605)542-4444  
Fax: (605)542-3333  
www.concealite.com

Unblemished.  
Unassuming.  
Unseen.



Now unsightly wiring devices can remain unseen with Concealite's DisCover Series, featuring our FDP (Flush Device Plate) system. The FDP was developed for Architects and Designers who want to hide all mounted devices such as receptacles, phone, data and ethernet devices that blemish beautiful interiors. Conceal devices with our revolutionary FDP system – technology that eliminates the need for receptacles to be visible.

## DisCover™ Series FDP™ – Flush Device Plate

### Aesthetics

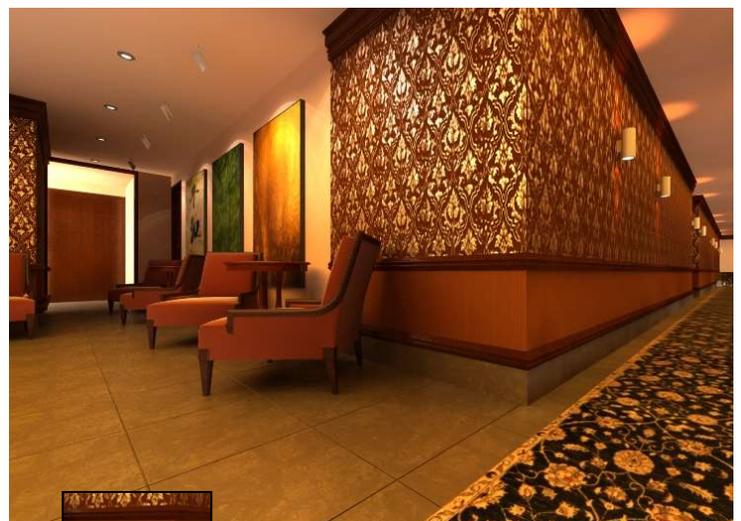
The DisCover Series FDP (Flush Device Plate) allows any standard single gang receptacle and wiring device to be recessed within a standard depth wall, all concealed behind a rotating door. FDP is field finished to match interior wall color, texture or finish perfectly when in the closed position. The result is a clean and unobstructed interior design.

### Architectural Features

- Stainless steel extended thin mud plate allows for a seamless and flush final finish.
- The FDP mounts into a standard stud wall during any construction phase. Easy access allows for future interior device replacement.
- The FDP is designed to allow for in field application of custom finishes (paint, textured paint, appliqué, or wallpaper). This allows the FDP's access door to blend in perfectly with the surrounding wall surface color or texture for a final appearance that is nearly impossible to see.
- Door manually rotates open for access to outlets or other devices. In a closed position, receptacles or switches are concealed behind a flush door that "disappears" into the surrounding decor.
- Access door cover is constructed of heavy gauge stainless steel.
- The FDP is vandal resistant, and not prone to typical damage associated with exposed installations.
- Receptacle devices and switches furnished with the FDP are specification grade quality.
- Receptacles are rated for 125 VAC, 20 amp and switches are rated for 120/277 VAC, 20 amp. Custom configurations are available by contacting Concealite.
- The FDP System includes specification grade devices.
- FDP accepts all major wiring device manufacturers' products (specify if preference).



Envision the Invisible.



Concealite's DisCover Series Makes it Possible!

Envision the Invisible.

## Installation

The FDP (Flush Device Plate) is installed on a standard 4" square by 1 1/2" deep junction box as an extension. The junction box is mounted to the side of the stud [Fig. 4]. The FDP outer sleeve is then attached to the junction box [Fig. 3] and the device is wired and placed into position and secured. The location of the wall mounted outer sleeve is then marked for placement for the access hole to be cut (typical roto-zip process). Once the wall material (gypsum board, etc.) is in place and the access hole is cut, the FDP flush plate/door assembly is secured flush to the wall [Fig. 4]. The field application of wall finishing material conceals the flush plate surface, and the FDP is ready for paint or other wall finishes to be applied [Fig. 5]. Please see installation instructions for more details.

## Product Specifications

The Flush Device Plate system shall be Concealite/DisCover Series FDP (Flush Device Plate) and will conform to UL Standards UL514 and be installed in accordance with all National Electrical Code requirements. The unit shall have a flush access door that rotates and allows access to the device [Fig. 6]. The unit shall be constructed of a stainless steel flush mounting plate system that rotates and allows access to the device. The FDP System shall include specification grade devices (specify if preference).

### Receptacles

- #5362 Traditional Style
- #16362 Decora Style
- #8300-HG Traditional Style (Hospital Grade)
- #16362-HG Decora Style (Hospital Grade)

### Switches

- #1221, #1223, #1224 Traditional Style
- #5621, #5623, #5624 Decora Style

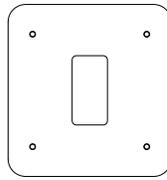
## Limited Warranty

All Concealite equipment is guaranteed against defects in materials and workmanship by the manufacturer for a period of three years from date of shipment under normal operations and proper use. Correction of all defects shall be by replacement or repair (at our discretion) and shall constitute fulfillment of all manufacturer's obligations.

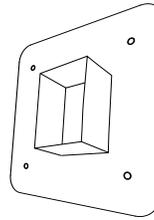


## DisCover™ Series

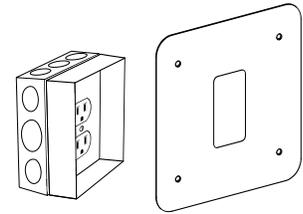
### FDP (Flush Device Plate)



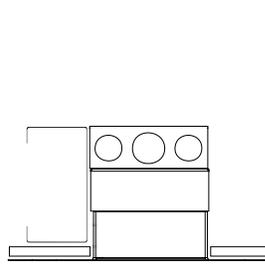
[Fig. 1] Front View FDP



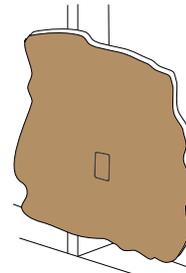
[Fig. 2] Back View FDP



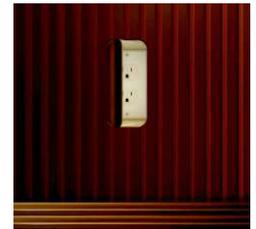
[Fig. 3] FDP & Junction Box Assembly



[Fig. 4] Top View FDP Installed



[Fig. 5] FDP Finished Closed Position  
 Access Door 2" Width x 4" Height

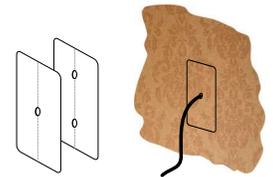


[Fig. 6] Manual Rotation to  
 Access Concealed Device

## Ordering Information

Example Spec: FDP-RT-MP-UP

	FDP	DEVICE	OPTIONS
<b>Series</b>	FDP (Flush Device Plate)		
<b>Device</b>	(Device Furnished with J-Box, Device and Cover Plate)		
RT	Duplex Receptacle (Traditional #5362)		
RD	Duplex Receptacle (Decora #16362)		
S1T	Single Pole Switch (Traditional #1221)		
S3T	Three Way Switch (Traditional #1223)		
S4T	Four Way Switch (Traditional #1224)		
S1D	Single Pole Switch (Decora #5621)		
S3D	Three Way Switch (Decora #5623)		
S4D	Four Way Switch (Decora #5624)		
A	Audio Video - List Connector Type		
V	Voice Data - List Connector Type		
B	Blank Plate		
O	Other, Provide Description		
<b>Options</b>			



### Flush User Plate (UP) Option

Snap in Flush User Plate to be used when cord(s) in place. Field applied finish allows the plate to match wall finishes.

- MP Multi-Pack Cover Plate Package** (Cover Plates Only) Includes a Variety of DisCover Series Wall Plates for Devices for In-Field Selection. Multi-Pack Cover Plate Package Includes:
  - (1) Traditional Receptacle, (1) Decora Receptacle and (1) Traditional Toggle Switch
- GFCI** Ground Fault Circuit Interrupter Receptacle
- TP** Tamper Resistant/Child Proof Receptacle
- VR** Vandal Resistant Keyed Door with Concealed Locking Mechanism (Allows Access Only Via Key Furnished)
- MC** Metal Clad Cable Connectors for Field Modification of Standard 1/2" And 3/4" Conduit Raceway Device Wiring Box
- HG** Hospital Grade, Switch / Receptacle
- BRAND** *Optional:* Specify Device Manufacture/ Catalog No.
- CF** Custom Finish Interior. Finish for Visible Interior When in Use. (Specify RAL Color). Ivory Finished Interior Provided as Standard.
- FR** Fire Rated Enclosure Installation – Maximum 2 Hour
- UP** **Snap in Flush User Plate** – Used When Cords are in Place



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## Fixture Models

FA100

FA900

FAFX



## Operation Cycle

When activated, the signaling appliance begins operation, the Conceal-Alarm's door rotates 180 degrees, and the micro-switch disengages the motor. The door is held open by a magnetic clutch system that remains operational until the fire alarm panel is deactivated. Deactivating the alarm mode branch circuit disengages the magnetic clutch and the door returns to a closed position.

## Wiring Needs

Conceal-Alarm units use standard wiring practices, comparable to any alarm system. No additional wiring is necessary.

## Appliance Application

Conceal-Alarm utilizes UL Listed fire alarm appliances, i.e., strobes, horns and strobe/horn combination units that operate with any fire system. Manufacturers appliances, such as, Wheelock, Simplex, Notifier, Gentex, etc. can be installed into the Conceal-Alarm fixture. Installation of optional units are dependent on the following guidelines:

- A catalog sheet (technical sheet) must be provided for the appliance.
- All Conceal-Alarm units come fitted with a factory fitted UL listed appliance. Appliances cannot be installed in the field.
- An additional cost per unit may be quoted based on the brand of appliance or the customer may be asked to provide the appliance for installation.

## Strobes

Strobes are available in wall and ceiling mount. Candela rating must be specified prior to manufacture. Due to concerns that strobe lights flashing at various times in the same area can trigger health problems, the Conceal-Alarm units are compatible with standard fire system synchronous modules, which cause the strobes to pulse at the same time.

## Horns

The horn portion of the appliance can be set to provide either Continuous Horn or Code 3 Horn. The sound output can be set for High (HI) or Low (LO) dBA. Conceal-Alarm units with the horn feature are shipped with the default settings from the appliance manufacturer, unless requested otherwise.

## Speakers

Speakers may operate with a public address system for use by the fire department, as well as automated messages during emergency situations.

## Back Box Applications

The Conceal-Alarm can be installed in various back boxes depending on the specific requirements. The following back boxes are available:

- **R1** Use in a standard stud wall (FA-100)
- **R1-900** Use in standard stud wall (FA-900)
- **RB** Use in retrofit applications (FA-100)
- **RB-900** Use in retrofit applications (FA-900)
- **RFX** Standard new construction (FX)
- **RBFX** Use in retrofit applications (FX)
- **SM** For surface mount installation (FA-100 only)
- **C-Block** For concrete (cinder) block wall installation (FA-100 only)

For specific dimensions on these back boxes refer to the technical section of the Concealite catalog or view the Back Box technical sheet at [www.concealite.com](http://www.concealite.com).

## Finish

The standard Conceal-Alarm trim and door are white powder coat. As with all Concealite fixtures, custom colors, custom metals and custom finishes are available options. Please contact factory for custom finishes.

## Electrical Requirements

The table below will assist in planning voltage requirements for fire alarm systems:

Model	Voltage	Current Draw (mAmps)*
FA	16 VDC	600
FA	24 VDC	600
FA	33 VDC	600
FA	16 vFWR	600
FA	24 vFWR	600
FA	33 vFWR	600

\* To determine total voltage requirements, select the proper current draw for the Conceal-Alarm from the table above and add the current draw requirements specified by the manufacturer of the appliance to be used within the Conceal-Alarm fixture.

## Draw Requirements

Current draw requirements are available on the cut sheet for the device or on the web site of the manufacturer. Information can be viewed at:

**Cooper Wheelock**  
[www.cooperwheelock.com](http://www.cooperwheelock.com)

**SimplexGrinnel**  
[www.simplexgrinnell.com](http://www.simplexgrinnell.com)

**System Sensor**  
[www.systemsensor.com](http://www.systemsensor.com)

**GE Edwards**  
[www.edwards-signals.com](http://www.edwards-signals.com)

## Limited Warranty

All Concealite equipment is guaranteed against defects in materials and workmanship by the manufacturer for a period of three years from date of shipment under normal operations and proper use. Correction of all defects shall be by replacement or repair (at our discretion) and shall constitute fulfillment of all manufacturer's obligations.

Note: These specifications are subject to change

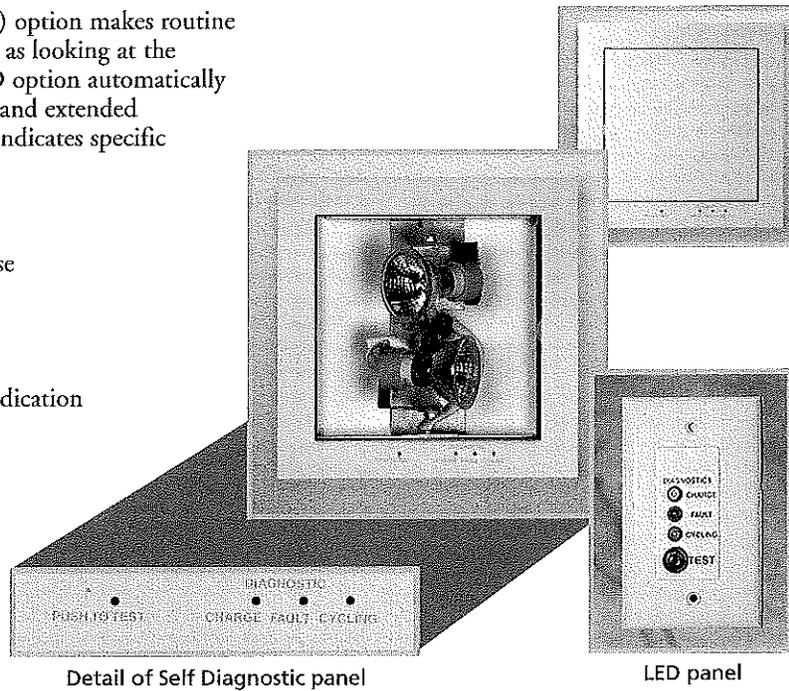
# SELF-DIAGNOSTIC

## Self-Diagnostic

The SD (Self-Diagnostic) option makes routine maintenance as effortless as looking at the diagnostic panel. The SD option automatically provides battery exercise and extended testing. The LED panel indicates specific component status.

### Features

- Monthly battery exercise
- Battery monitoring
- Charger monitoring
- Replacement battery indication
- LED lamp status



The SD self-diagnostic option allows maintenance personnel to monitor system status at a glance.

This SD option automatically cycles the unit every 25-30 days. While it is cycling, the monitoring circuits check the battery to ensure that it will deliver the power needed to maintain the load for a 1Z/x hours. The SD option does not use the lamps to test the battery; rather there is a predetermined resistive load within the option, thus avoiding lamp life reduction.

The SD option also recognizes problems while the unit is in a standby mode. During this period, the monitoring circuits check the charger voltage to see if an overcharge or undercharge is occurring. If either an overcharge or undercharge exists, the fault indicator will illuminate.

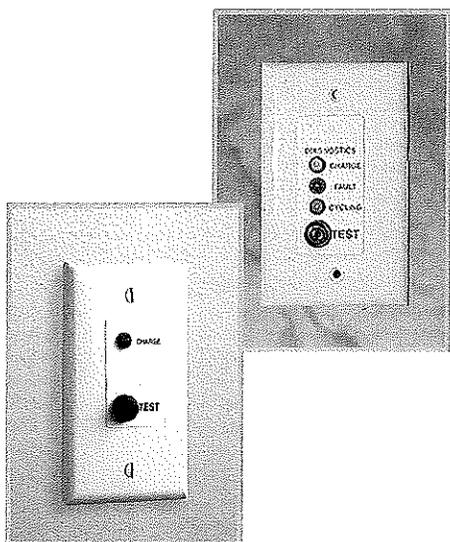
The amber LED indicates cycling and will only illuminate if the unit is self-testing. The LED stays lit for the duration of the test cycle, normally 15-20 minutes.

The red LED indicates a fault condition. The LED will come on and flash when a fault condition exists. The unit does not have to go through a cycle test to indicate a fault. The circuits are monitoring the charger at all times.

The green LED indicates charge and utility power. This LED is on during the standby mode.

The test switch is used to test the unit at any time. When a fault condition occurs, the indicator will flash. Once the problem is corrected, the test switch is used to reset the SD circuit.

OPTIONS &  
TECHNICAL DATA



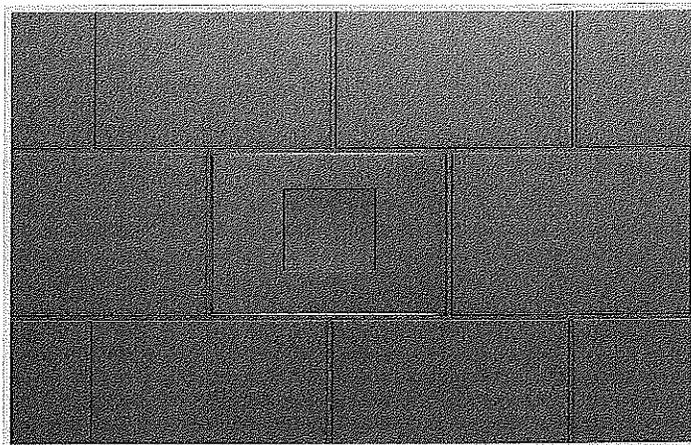
## Remote Test Switches

Remote Test Switches are available for the 5000, Hydro-Lite and Central Battery System series of products for both Standard and Self-Diagnostic units (RT Switch standard equipment on Series 1000). The Remote Test Switch allows the end user to locate the Test Switch away from the unit for ease of maintenance (refer to Voltage Drop Table). The switch will mount in a single gang wall box. The Remote Test Switch will only control one emergency lighting unit.

Contact the factory for wiring diagrams for this option.

## CINDER BLOCK

This option provides a back box that is the same dimensions as a standard cinder block eliminating the need for special cutting and cement work. The back box can be shipped before the rest of the unit to make installation easy. The door and frames come standard in primed. Custom finishes and colors are available. Contact the factory for available run time and lamps.



**CONCEALITE**  
LIFE SAFETY PRODUCTS

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Note: These specifications are subject to change.

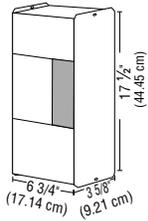
# Concealite's Back Box Dimensions

Options and Technical Data

## Recessed Battery Back Boxes

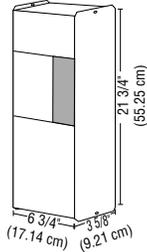
### New Construction

Note: R-1 fits FA100, R4000, and MX I. F5000 based on size (see below).



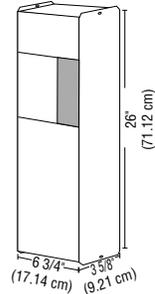
**R-1  
Lead Acid**  
#F5-12-90  
#F5-12-2  
#F5-20-90

**R-1  
NiCad**  
#F5-12-90  
#F5-12-2  
#F5-20-90  
#F5-20-2



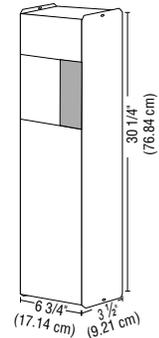
**R-2  
Lead Acid**  
#F5-12-4  
#F5-20-2  
#F5-35-90  
#F5-35-2  
#F5-50-90

**R-2  
NiCad**  
#F5-12-4  
#F5-20-4  
#F5-35-90  
#F5-35-2  
#F5-50-90



**R-3  
Lead Acid**  
#F5-20-4  
#F5-50-2  
#F5-75-90

**R-3  
NiCad**  
#F5-50-2  
#F5-75-90



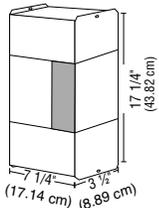
**R-4  
Lead Acid**  
#F5-35-4

**R-4  
NiCad**  
#F5-35-4

## Retrofit Back Boxes

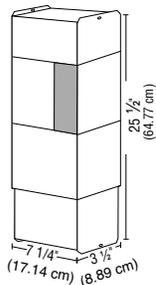
### Existing Construction

Note: Retro-1 fits FA100, R4000, and MX I. F5000 based on size (see below).



**Retro-1  
Lead Acid**  
#F5-12-90  
#F5-12-2  
#F5-20-90

**Retro-1  
NiCad**  
#F5-12-90  
#F5-12-2  
#F5-20-90  
#F5-20-2



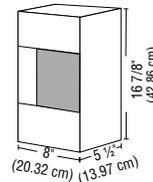
**Retro-3  
Lead Acid**  
#F5-12-4  
#F5-20-2  
#F5-20-4  
#F5-35-90  
#F5-35-2  
#F5-50-90  
#F5-50-2  
#F5-75-90

**Retro-3  
NiCad**  
#F5-12-4  
#F5-20-4  
#F5-35-90  
#F5-35-2  
#F5-50-90  
#F5-50-2  
#F5-75-90

## Surface Mount Back Boxes

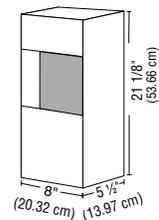
### New Construction

Note: SM-2 fits FA100, R4000, and MX I. F5000 based on size (see below).



**SM-2  
Lead Acid**  
#F5-12-90  
#F5-12-2  
#F5-12-4  
#F5-20-90  
#F5-20-2  
#F5-20-90  
#F5-35-2  
#F5-50-90

**SM-2  
NiCad**  
#F5-12-4  
#F5-20-4  
#F5-35-90  
#F5-35-2  
#F5-50-90



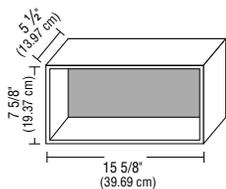
**SM-4  
Lead Acid**  
#F5-20-4  
#F5-35-4  
#F5-50-2  
#F5-75-90

**SM-4  
NiCad**  
#F5-35-4  
#F5-50-2  
#F5-75-90

## C-Block

### New Construction

Note: C-Block fits R4000, FA100, and MX I. F5000 based on size/battery (see below).



**C-Block  
Lead Acid**  
#F5-12-90  
#F5-12-2  
#F5-12-4  
#F5-20-90  
#F5-20-2  
#F5-35-90  
#F5-35-2  
#F5-50-90

**C-Block  
NiCad**  
#F5-12-90  
#F5-12-2  
#F5-12-4  
#F5-20-90  
#F5-20-4  
#F5-35-90  
#F5-35-2  
#F5-50-90



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