

# Concealite Life Safety Products

**Model: EXC - EXIT Sign – Flush Wall Mounted 120/277 VAC Input  
Standard AC Only, R – Red Letters, G – Green Letters, EM 90 Minute, Self-  
Powered,  
EM2 – 2 Hour Self-Powered, EM4 – 4 Hour Self-Powered, DL – Damp Label,  
DUAL120 - Dual Circuit 120VAC / DUAL277 - Dual Circuit 277VAC**

## Save These Instructions

### Important Safeguards

When using electrical equipment, basic safety precautions should always be followed:

### Read and Follow All Safety Instructions

1. Damp label rated for outdoor application.
2. Do not mount units where they will be exposed to direct sunlight, radiators, gas or electric heaters. Prolonged exposure to temperatures exceeding 95 degrees Fahrenheit may reduce battery life and void warranty.
3. Use caution when servicing batteries. Battery acid causes burns to skin and eyes. If acid is spilled on skin or in eyes, flush with fresh water and contact a physician immediately.
4. Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
5. Do not store or place flammable materials near lamps.
6. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
7. Do not use this equipment for other than intended use.
8. Before wiring to AC service, turn off AC power at fuse or circuit breaker supplying unit.
9. Battery in this unit (if self-contained battery backup series) may not be fully charged. After the AC service is supplied to unit, let the battery charge for at least 48 hours before performing any tests.
10. Qualified service personnel should perform servicing of this equipment.

#### Model: EXC Series

AC Supply Voltage:	120 Volts AC or 277 Volts AC (+ /- 10%)
Power Consumption:	Maximum 10 Watts
LED Lighting	Red or Green
Self-Powered Option EM Integral NiCad Battery Backup	90 Minute Operation
ETL Listed UL 924	Damp Location - DL

## Instructions for Installation ... Operation ... Service

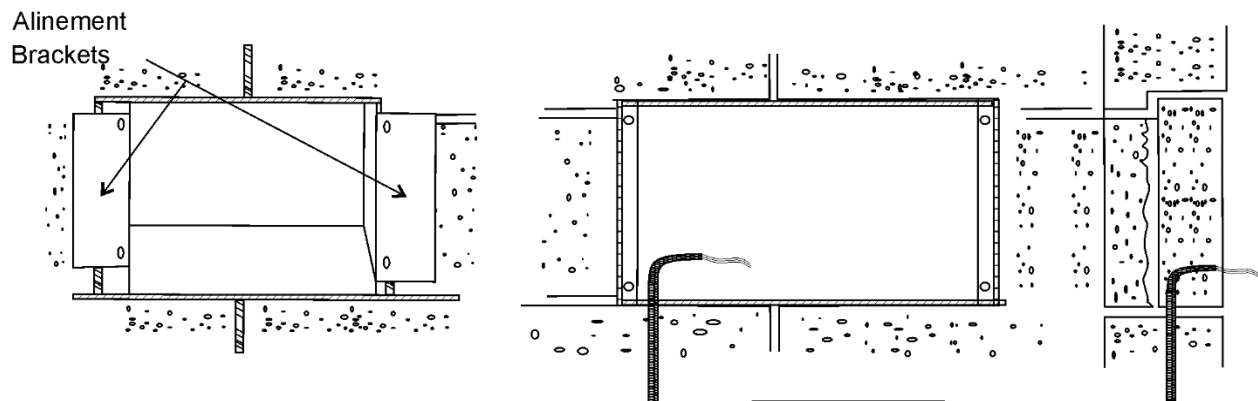
**Failure to follow published installation instructions or any modifications to the product may damage the unit and will void the warranty.**

### **Step #1: Recessed flush wall mounting installation.**

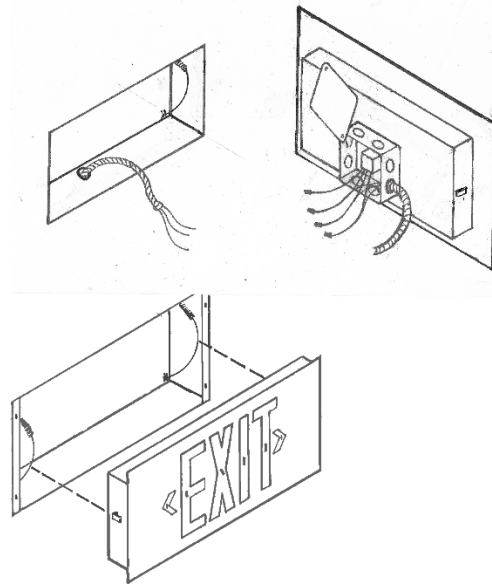
This unit is designed for recessed flush wall Concrete C block, poured concrete and precast concrete wall mounting for indoor building construction. Determine exit sign egress viewing location as directed by Governing Codes, including National and Local Code requirements.

For recessed flush wall mounting installation, confirm that the wall location is a visible location clear of obstructions including electrical and mechanical building systems. The clear area required for recessed flush mounting is 10 inches high by 15 5/8 inches wide and 4 inches in depth within the wall area mounting location. Avoid installations where building wall construction that may cause recessed back box deformity.

Note: The temporary alignment brackets assure that the exit sign face panel will be positioned flush with the surrounding C block wall construction block faces.



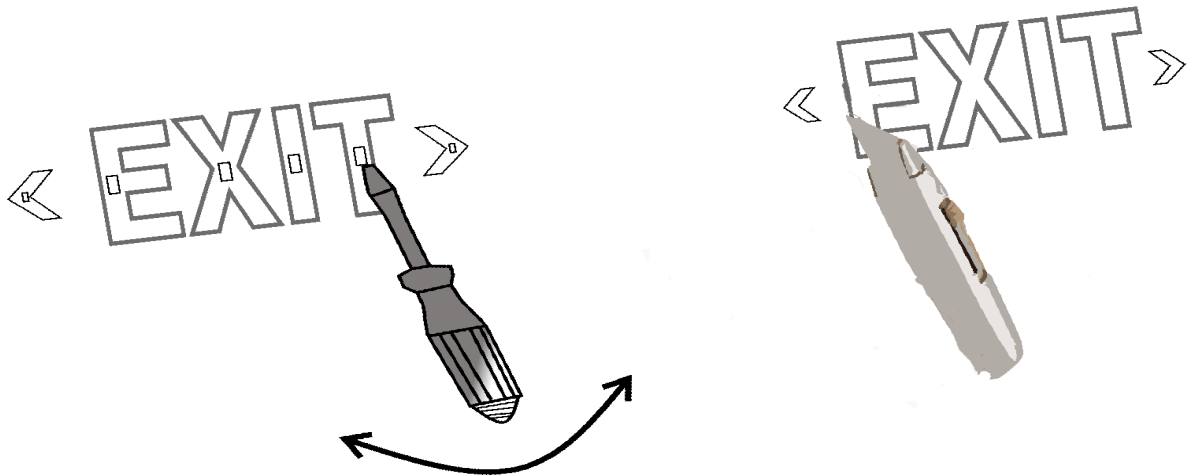
1. Provide National Electrical Code conduit raceway connections passing through the recessed C block back box routing to the exit sign mounted 4 Inch square junction box. Utilizing the provide 13/ 16" KO's on the junction box.
2. Access the branch circuit termination junction box by opening the junction box cover located on the back side of the exit sign fixture.
3. Provide a single unswitched supply from either a 120 VAC or 277 VAC branch circuit used for normal lighting in the egress room area.
4. Make the proper supply lead branch circuit connections with only UL recognized wire nuts. If using 120VAC, connect the black and white leads to the building utility power. If using 277VAC, connect the red and white leads to the building utility power. Cap off unused wire. Remove and discard the backbox guides used for proper flush alignment with surrounding wall.
5. Provide exit sign fixture ground conductor connections with only UL recognized wire nuts, between green conductor lead and branch circuit conductors within the junction box.
6. Align the exit sign face assembly into the C block back box wall opening. While inserting the exit sign face located and connect the back box retaining springs to both the left and right sides in the exit sign face. Upon connection of both springs allow the exit sign face to move into the back box until seated flush mounted against the flush front of the back box. Verifying that the flush exit sign fixture face panel is completely seated, horizontally level and continuously flush around the entire perimeter of the against the c block wall.



## Step #2: Finishing of The Front Flush Exit Sign Metal Panel.

- 1.) Complete the painting / finishing of the front exit sign metal panel as desired to match surrounding wall finishes / textures as desired. Include painting / finishing of exposed edges of the letters and arrows to also match the wall. The front exit sign metal panel face is factory coated finish to accept paints and finishes. Taking care to not allow excessive paint / finishes to remain and cure on the inside edges of the letters and arrow openings used.
- 2.) Removing Temporary KO Letters and Arrows: Remove temporary letter and arrow KO inserts only after finished paint is completely dry. Remove KO inserts by inserting a blade tipped screwdriver into the center slots of each letter and arrow to be removed. Rotate the KO insert using the screwdriver moving left and right until the KO insert is completely detached from the exit sign face. Discard letter and arrow metal inserts.
- 3.) Covering Material: If the front face of the exit sign panel is to be covered with a material (wallpaper, cloth, laminate, etc.) allow mastic used in applying the covering to completely setup. Use a sharp-edged cutting tool such as a single edge razor blade or a utility knife drawn against all edges of the letter and arrow openings to completely removing liner material and provide a continuous clean straight edged line around shapes.

**Note: Painting / final front exit sign metal flush panel finishes must be completed and completely dried / cured prior to taking the additional installation steps!**

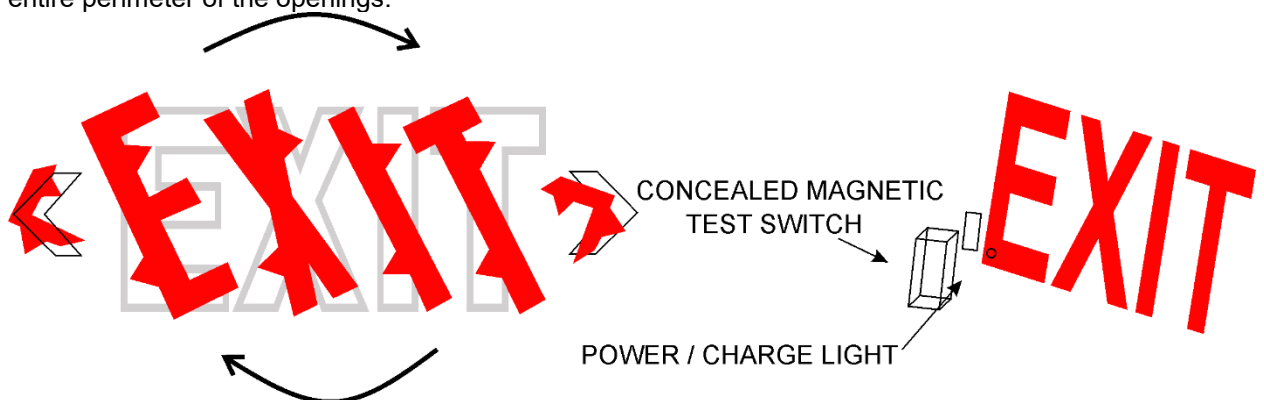


**Step #3: Energizing the Illuminated Exit Sign.**

- 1.) Provide and energize the uninterrupted building supply branch circuit power to the exit sign.

**Step #4: Mounting Plastic Illuminated Letters and Arrows.**

- 1.) Verify that all excess paint or other possible obstructions are cleared from the perimeter exposed edges of letter and arrow metal stencil openings. If necessary, a sharp-edged knife can be used to remove and clear out any excess paint along the metal edges.
- 2.) Insert the letters and arrows by first aligning the recessed tabs in line with the respective exit sign face stencil opening. Then, while flexing the two tabs inward, rotate each of the letters in a clockwise direction until the plastic letter is in line with the stencil opening. Carefully insert into final position by slightly flexing the upper and lower tips of the letters and arrows away from the exit sign face. Release the letter once they are in line. Making sure the letter is seated into the recessed stencil area. Assure the letters and arrows are completely flush and in contact with the entire perimeter of the openings.



## Manual Testing

1. Testing the operation of the unit is designed to be completed only by authorized personnel. The test switch is located on the bottom of the front exit sign metal assembly. To test the unit. First lift upwards on the front exit sign metal assembly, pull the assembly evenly outward, away from the recessed back box to provide access to the test switch. The test switch is now accessible from below the unit and can be depressed to complete test procedures. Releasing the test switch will return the unit to normal operating mode. Reinstall the exit sign by returning the front exit sign panel assembly to the concealed position by pushing the assembly back into the recessed back box and allowing the front exit sign metal panel to drop downward into the final position.
2. Power and charge status indication is visible through the front exit sign metal panel by viewing from the bottom of the unit. Red indicates normal operation.

## Troubleshooting:

### Symptom

Unit does not operate illuminate.

### Possible Corrective Measure(s)

Verify AC power is energized to the unit.  
Replace LED charger board.

Unit does not illuminate during emergency mode.

Verify battery backup is connection is secure.  
Replace battery backup pack, contact factory.

Concealite Life Safety Products, Inc. 202 Elk Street, Elkton, SD 57026 [www.concealite.com](http://www.concealite.com) 605-542-4444

## Routine Care

**Taking a Unit Out of Service** If a unit is to be deliberately taken out of service for an extended period, and when the unit includes optional (EM) separate emergency power battery / charger unit, the optional emergency unit male / female connector battery leads should be disconnected from the charger so that the battery will go into storage in a fully charged condition and disconnect and remove the input 120 VAC or 277 VAC as applicable power connections as per emergency power unit manufacturers recommendations. If there is any chance that a unit taken out of service may later be used on a different VAC circuit, tag the unit's current primary input selection as either 120 VAC or 277VAC as applicable.

## **Warranty**

All Concealite fixtures are tested and are guaranteed to be free from defective materials and workmanship for a period of one year 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. We will not allow any charge for labor, materials, etc. that does not have our written approval before the work is begun. Damage incurring in handling or in transit are not covered by this guarantee. Any other warranty, expressed or implied, is hereby void. Modifications to the product or failure to follow installation instructions will void the warranty. Batteries provided as part of this unit's equipment carry a one-year warranty. Failure to fully charge the batteries within 120 days from shipment will void the warranty on the batteries.