

## SECTION 10 14 43 - PHOTOLUMINESCENT EXIT SIGNAGE

### PART 1 - GENERAL

#### 1.1 SUMMARY

A. Section Includes:

1. Photoluminescent exit signs.

#### 1.2 SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: Include fabrication and installation details and attachments to other work.
- C. Certification: Manufacturer's UL924 listing documentation.

#### 1.3 QUALITY ASSURANCE

- A. Comply with UL 924 and NFPA 101.
- B. Comply with the applicable requirements of the following:
1. UL924: Underwriters Laboratories Standard for Emergency Lighting and Power Equipment, latest edition.
  2. NFPA 101: National Fire Protection Association Life Safety Code, latest edition.
  3. Authority having jurisdiction.
- C. Service life: Minimum 25 years for interior installations.

#### 1.4 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of signs that fail in materials or workmanship within specified warranty period.
1. Warranty Period: Five years from date of Substantial Completion.

### PART 2 - PRODUCTS

#### 2.1 MANUFACTURER

- A. Manufacturer: LumAware, Inc.

1. No substitutions allowed.
- B. Distributor: LumAware, Inc.
  1. Contact:
    - a. Phone: 513-761-7614
    - b. Email : customerservice@lumawaresafety.com
    - c. Website: www.lumawaresafety.com
  2. Specify store number and address when ordering.

## 2.2 EXIT SIGNS

### A. Single- and Double-Sided Exit Signs:

1. Location: All areas of facility per quantity and location indicated on Drawings.
2. Visibility: 100 feet (30.5 m) (5 footcandles (53.8 lux) rated energy-free photoluminescent).
3. Sign Face Material: Aluminum sheet 0.030 to .075 inch (0.75 to 2 mm) thick with manufacturer's standard brushed aluminum finish.
4. Size: 8-1/2 inches by 15-3/4 inches (216 mm by 400 mm).
5. Lettering: Non-toxic, non-radioactive, photoluminescent light green letters that absorb and store energy from ambient light, not requiring external power supply, lamps, LED's or batteries.
  - a. Directional indicators: Two self-adhering chevron profile indicators per sign, for field application.
6. Frame Type: Aluminum framed, standard profile type.
7. Mounting Type: Wall, ceiling, or projected as indicated on Drawings.
8. Mounting Brackets: Manufacturer's standard for frame system, aluminum, clear brushed finish.

## 2.3 MOUNTING ACCESSORIES

- ### A. Supply each sign with mounting hardware for wall: edge on for double face, flat for single face or ceiling mount: double face based on specific product number.
1. Provide manufacturer's standard drop down post where required for proper mounting height or as indicated on Drawings.

## PART 3 - EXECUTION

### 3.1 INSTALLATION

- #### A. Location: See Life Safety Plan or Floor Plan Drawings for location and type of signs.

- B. General: Install exit signs using mounting methods indicated and according to manufacturer's written instructions and authority having jurisdiction. Do not suspend by cable or other means that allow the signs to move with airflow.
  - 1. Install signs level, plumb, true to line, and at locations and heights indicated, with sign surfaces free of distortion and other defects in appearance.
  - 2. Install signs so they do not protrude or obstruct according to the accessibility standard.
  - 3. Before installation, verify that sign surfaces are clean and free of materials or debris that would impair installation.
  - 4. Avoid interference with and provide clearance for other equipment. Where the indicated location for exit signs conflicts with the location for other equipment, change the location of the exit signs by the minimum distance necessary as approved by the Owner and Architect.
  - 5. Install directional chevrons as shown on the installation Drawings.
- C. Remove temporary protective coverings and strippable films as signs are installed.

### 3.2 FIELD QUALITY CONTROL

- A. Turn on lights that will illuminate the photoluminescent exit signs.
- B. With an appropriate light meter, measure the amount of illumination on the face of each exit sign.
- C. Report to the Owner and Architect any locations that do not have at least 5 footcandles (53.8 lux) of illumination by fluorescent lighting fixtures on the face of the exit sign.

END OF SECTION 10 14 43

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