

**PART 1 GENERAL****1.1 SECTION INCLUDES**

- A. Photoluminescent luminous egress path markings for:
  - 1. Stairwell stair treads
  - 2. Stairwell handrails
  - 3. Stairwell landing perimeters
  - 4. Stairwell obstacles
  - 5. Floor identification signs
  - 6. Door outlines
  - 7. Door handles

**1.2 RELATED SECTIONS**

- A. Section 26 52-13.16 Exit signs – photoluminescent
- B. Section 05 55 00 Metal Stair Treads and Nosings
- C. Section 1023.9.1 Stairway Identification Signs

**1.3 REFERENCES**

- A. Underwriter Labs. UL 924. Standard for Emergency Lighting and Power Equipment
- B. International Code Council. IBC Section 1025
- C. National Fire Protection Association [NFPA]. NFPA101 Life Safety Code
- D. ASTM International
  - a. ASTM E2072. Standard Specification for Photoluminescent Safety Markings.
  - b. ASTM E2073. Standard Test Method for Photopic Luminance of Photoluminescent Markings.

**1.4 SUBMITTALS**

- A. Comply with requirements of Section 01 30 00. Admin Requirements.
- B. Product data: Manufacturer's descriptive literature, material list, specifications, recommended installation methods and maintenance instructions for each type of marking and sign specified.
- C. Shop drawings: Installation drawings and schedule for each marking and sign type indicating where in the building the markings and signs will be placed; typical elevation and installation details for sign placement at doors, walls and other locations.

- D. Samples: Full size samples of each marking and sign type, style and color to be furnished. Include samples of attachment methods.
- E. Documentation:
  - 1. Manufacturer's Material Safety Data Sheets (MSDS).
  - 2. Documentation to Enforcing Agency as required by local and state Authorities Having Jurisdiction.

## 1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications. Product manufacturer to have 10+ years experience.
- B. Installer Qualifications. Installation company to have 2+ years experience.
- C. Source Limitations. To ensure uniformity, provide each type of product from a single manufacturing source.
- D. Mock-up. Construct a mock-up with actual product samples for Architect's review. If mock-up is not acceptable, rebuild until satisfactory. Retain mock-up during entire project construction duration as a comparison standard .

1.6 PRE-INSTALLATION: Approximately 2 weeks before project installation commences, arrange a conference with Architect, Contractor and Trades involved. Agenda shall include responsibilities, schedule, critical path items and required approvals.

## 1.7 DELIVERY, STORAGE & HANDLING

- A. Store and handle in compliance with manufacturer's instructions.
- B. Protect from damage due to weather, temperature and construction operations.

1.8 PROJECT CONDITIONS: Maintain and install products within environmental conditions recommended by manufacturer.

## PART 2 PRODUCTS

### 2.1 MANUFACTURER

- A. Active Safety Corp. [www.activesafety.com](http://www.activesafety.com), (800) 657-6324  
5 East 4800 South Murray, Utah 84107  
[frank@activesafety.com](mailto:frank@activesafety.com)

## 2.2 MATERIALS

- A. Photoluminescent Stair Tread Marker – Bullnose Profile  
Aluminum extrusion with durable photoluminescent stripe  
1. Active Safety Series 200
  - B. Photoluminescent Stair Tread Marker – Flat Profile  
Aluminum extrusion with durable photoluminescent stripe  
1. Active Safety Series 210
  - C. Photoluminescent Tread Marker – Flat Profile  
Aluminum extrusion with durable photoluminescent stripe  
1. Active Safety Series 214
  - D. Photoluminescent Contrasting Stair Tread Marker – Flat Profile  
Aluminum extrusion with durable photoluminescent stripe  
1. Active Safety Series 215
- 2. Photoluminescent Hand Rail Marker  
Flat or curved aluminum strip with durable photoluminescent coating  
1. Active Safety Series 300
  - 3. Photoluminescent Obstacle Marker  
Flat or curved aluminum strip with 'zebra' stripe photoluminescent coating  
1. Active Safety Series 310
  - 4. Photoluminescent Egress Path Marker [Wall, Floor & Door]  
Flat aluminum strip with durable photoluminescent coating  
1. Active Safety Series 320
  - 5. Photoluminescent Floor Identification Sign  
Durable photoluminescent aluminum placard with black lettering  
1. Active Safety Series 500
  - 6. Photoluminescent NFPA 170 Emergency Exit Marker  
Durable photoluminescent aluminum/plastic placard with green symbols  
1. Active Safety Series 510

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Inspect work locations to ascertain that substrates have been properly constructed and prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect in writing of any unsatisfactory preparation before proceeding.

### 3.2 PREPARATION

- A. Clean substrate surfaces thoroughly before product installation.
- B. Prepare surfaces using methods recommended by manufacturer for achieving best results for the substrate under project conditions.
- C. Test substrates for fit with products before using adhesives or mechanical fastening.

### 3.3 INSTALLATION

- A. Install markings and signs in accordance with this specification, applicable Code requirements, manufacturer's instructions and as shown on the Drawings and specified by Architect. Report conflicts to the Architect.
- B. Avoid interference with and provide clearance for other equipment. Where the indicated locations for the signage conflicts with locations for other equipment, change the locations of the signage by the minimum distances necessary as approved by the Architect.
- C. Repair or replace damaged markings and signage.
- D. Install with manufacturer specified screws and approved low VOC construction adhesive. Double faced adhesive tape is not permitted.
- E. Maintain zero or minimal clearance with the face of substrate.

### 3.4 FIELD QUALITY CONTROL

- A. Field Inspection. Coordinate field inspection in accordance with appropriate sections in Division 01.
- B. Verify that nearby light sources shall provide at least 1 foot candle on the markings and signage faces during normal operation. Test acceptable operation by turning on lights for at least 60 minutes and then turning off lights and confirming that markings and signage visibly glow for 90 minutes.
- B. Replace any signage that does not visibly glow during the duration of the test.

### 3.5 CLEANING AND PROTECTION

- A. At completion of installation, clean soiled surfaces following Manufacturer's instructions.
- B. Remove construction debris and other items of work from project site.
- C. Protect installed markings and signage from damage from other construction activities until Acceptance.
- D. Separate waste in accordance with the Waste Management Plan and place in designated areas for recycling or reuse.

END OF SECTION