

ICC-ES Evaluation Report**ESR-1409**

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DIVISION: 26 00 00—ELECTRICAL
Section: 26 52 00—Emergency Lighting**REPORT HOLDER:****ACTIVE SAFETY CORPORATION**
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activesafety@activesafety.com**EVALUATION SUBJECT:****PHOTOLUMINESCENT EXIT SIGNS****1.0 EVALUATION SCOPE****Compliance with the following codes:**

- 2012 and 2009 *International Building Code*® (IBC)
- 2012 and 2009 *International Fire Code*® (IFC)

Property evaluated:

Photoluminescent exit sign

2.0 USES

Active Safety Corporation photoluminescent exit signs are intended for use as exit signs in accordance with Section 1011 of the IBC (exclusive of IBC Section 1011.3) and Section 1011.5 of the IFC; and for use as low-level exit signs in accordance with Section 411.7 of the IBC.

3.0 DESCRIPTION**3.1 General:**

Photoluminescence for the Active Safety Corporation exit signs is provided by a proprietary pigment of strontium oxide aluminate crystals that emits light as a result of absorption of visible light, which continues for a length of time after excitation. The signs provide continuous illumination for a minimum of 90 minutes in case of primary loss of the external light source.

3.2 Exit Signs:

3.2.1 Model 2001: The Model 2001 sign measures 15 inches wide by 8 inches high (381 mm by 203 mm), is $\frac{1}{8}$ inch (3.2 mm) deep for a single-face sign and $\frac{1}{4}$ inch (6.4 mm) deep for a double-face sign, and consists of a 0.01-inch-thick (0.3 mm) layer of light green photoluminescent material impregnated, by extrusion or injection molding, on a 0.039-inch-thick (1 mm) layer of PVC substrate. The legend "EXIT" is stenciled on the substrate in red or dark

green ink. Optional directional indicators, which consist of self-adhering vinyl film coated with red or dark green ink, may be applied to the photoluminescent surface. The maximum legible viewing distance is 50 feet (15 m).

3.2.2 Model 2002: The Model 2002 sign measures 15 inches wide by 8 inches high (381 mm by 203 mm), is $\frac{1}{8}$ inch (3.2 mm) deep for a single-face sign and $\frac{1}{4}$ inch (6.4 mm) deep for a double-face sign, and consists of a layer of light green photoluminescent background material impregnated, by extrusion or injection molding, on a 0.039-inch-thick (1 mm) layer of PVC substrate. The substrate is covered by a 0.059-inch-thick (1.5 mm) unpainted aluminum plate that has the legend "EXIT" cut out. Optional directional indicators may be punched out of the aluminum plate. The maximum legible viewing distance is 75 feet (23 m).

4.0 INSTALLATION**4.1 General:**

Active Safety Corporation exit signs must be installed indoors where they are not exposed to direct sunlight, liquid spray or temperatures outside the range of 50°F to 104°F (10°C to 40°C). The signs must not be installed where a tactile sign complying with ICC/ANSI A117.1 is required by IBC Section 1011.3. The signs must be illuminated in accordance with IBC Section 1011.4 and IFC Section 1011.5.

4.2 Model 2001 and Model 2002:

The Model 2001 and Model 2002 exit signs have two holes for mounting on a flat wall surface, or are supplied with an aluminum mounting bracket for edge mounting. The signs must be securely mounted using the two screw holes provided. Mounted exit signs must be readily visible from any direction of approach.

5.0 CONDITIONS OF USE

The Active Safety Corporation photoluminescent exit signs described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** The signs are manufactured, identified, installed and maintained in accordance with this report and the manufacturer's published installation instructions. In the event of a conflict between this report and the manufacturer's published installation instructions, this report must govern.
- 5.2** The signs must not be installed where a tactile sign complying with IBC Section 1011.3 is required.

5.3 Placement of Model 2001 exit signs must be limited to maximum 100-foot (30 480 mm) intervals. Placement of Model 2002 exit signs must be limited to maximum 150-foot (45 720 mm) intervals.

6.0 EVIDENCE SUBMITTED

- 6.1** Manufacturer's published installation instructions.
- 6.2** Product literature.
- 6.3** Reports of testing and listing in accordance with UL 924, for Models 2001 and 2002 exit signs.

6.4 Data from United Mineral and Chemical on the use of strontium oxide aluminate crystals for the floor-level exit signs.

6.5 A quality control manual.

7.0 IDENTIFICATION

The exit signs described in this report must be labeled with the name and address of the manufacturer (Active Safety Corporation), the maximum legible viewing distance, the model number, a date code, the evaluation report number (ESR-1409) and the name of the listing agency (UL LLC).