

IFC/IBC REQUIRED EGRESS MARKINGS AND SIGNS



SECTION 05 55 19

PHOTOLUMINESCENT STAIR NOSINGS

This section includes editing notes to assist the user in editing the section to suit project requirements. These notes are included as hidden text, and can be revealed or hidden by the following method in Microsoft Word:

Display the FILE tab on the ribbon, click OPTIONS, then DISPLAY. Select or deselect HIDDEN TEXT.

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Photoluminescent stair nosings.
- B. Related Requirements:
 - 1. Division 01 - General Requirements: Administrative, procedural, and temporary work requirements.
 - 2. Section 10 45 00 - Photoluminescent Exit Specialties.
 - 3. Section 26 52 13 - Photoluminescent Exit Signs.

1.2 REFERENCES

- A. ASTM International (ASTM) E2072 - Standard Specification for Photoluminescent (Phosphorescent) Safety Markings.
- B. International Code Council (ICC):
 - 1. International Building Code (IBC).
 - 2. International Fire Code (IFC).
- C. National Fire Protection Association (NFPA) 101 - Life Safety Code.
- D. Underwriters Laboratories, Inc. (UL)
 - 1. 410 - Standard for Slip Resistance of Floor Surface Materials.
 - 2. 1994 - Standard for Luminous Egress Path Marking Systems.
- E. United States Department of Justice (USDOJ) - ADA Standards for Accessible Design (SAD).

1.3 SUBMITTALS

- A. Action Submittals:
 - 1. Shop Drawings: Indicate nosing locations and attachments.
 - 2. Product Data: Include product description, materials, finishes, and performance characteristics.
 - 3. Samples: [8] [] inch long samples of each nosing.
- B. Informational Submittals:
 - 1. Certificates of Compliance: Show product compliance with reference standards.
- C. Closeout Submittals:
 - 1. Maintenance Data: Include recommendations for cleaning and routine maintenance.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Minimum [2] [] years experience in work of this Section.
- B. Provide nosings in accordance with [NFPA 101.] [ICC IBC.] [ICC IFC.] [____.]
- C. Meet requirements of [USDOJ ADA.] [applicable accessibility code.]

1.5 DELIVERY, STORAGE AND HANDLING

- A. Store nosings in cool, dry location in original packaging until installed.

1.6 WARRANTY

- A. Provide manufacturer's 25 year warranty against loss of photoluminescence for following periods.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Contract Documents are based on products by Safe-T-Nose LLC. (www.safetnose.com)
- B. Substitutions: [Refer to Division 01.] [Not permitted.]

2.2 MATERIALS

- A. Extruded Aluminum: 6063-T5 alloy and temper.
- B. Reflectance Material: Photoluminescent pigment embedded in ionomer resin carriers.
- C. Photoluminescent Area Luminance Properties: ASTM E2072 and UL 1994.
 - 1. From test sample activation: 10.76 lx (1.000 fc) for 60.0 minutes:
 - a. For 10 minutes after lights go out: Minimum 30 mcd per square meter.
 - b. For 60 minutes after lights go out: Minimum 7 mcd per square meter.
 - c. For 90 minutes after light go out: Minimum 5 mcd per square meter.

2.3 MANUFACTURED UNITS

- A. Photoluminescent Stair Nosings:
 - 1. Model: STNR for surface mount applications.
 - 2. Tested and listed to UL 1994.
 - 3. Pass UL 410 requirements for slip resistance.
 - 4. Meet requirements for 90 minute photoluminescent emergency illumination.
 - 5. Description: Two piece construction; 2 inch wide anodized aluminum nosing, 1 inch wide replaceable photoluminescent strip similar to golf ball cover materials, washable and easily sanitized [, and temporary construction cover].
 - 6. Length: Stair width [less 1 inch maximum].
 - 7. Mounting type: As required by substrate conditions.
 - 8. Aluminum nosing color: [Clear anodized.] [Yellow powder coat.] [Black powder coat.] [Custom color powder coat.]

**** OR ****

- B. Photoluminescent Stair Nosings:
 - 1. Model: STNRS for shop-fabricated checkered plate stairs.
 - 2. Tested and listed to UL 1994.
 - 3. Pass UL 410 requirements for slip resistance.
 - 4. Meet requirements for 90 minute photoluminescent emergency illumination.
 - 5. Description: Two piece construction; 2 inch wide anodized aluminum nosing, 1 inch wide replaceable photoluminescent strip similar to golf ball cover materials, washable and easily sanitized, and temporary construction cover.
 - 6. Length: Stair width [less 1 inch maximum].
 - 7. Aluminum nosing color: [Clear anodized.] [Yellow powder coat.] [Black powder coat.] [Custom color powder coat.]

**** OR ***

- C. Photoluminescent Stair Nosings:
1. Model: STNP for concrete filled steel pan stairs.
 2. Tested and listed to UL 1994.
 3. Pass UL 410 requirements for slip resistance.
 4. Meet requirements for 90 minute photoluminescent emergency illumination.
 5. Description: Four piece construction; 2 inch isolator, 1-1/2 inch wide replaceable anodized aluminum nosing, 1 inch wide replaceable photoluminescent strip similar to golf ball cover materials, washable and easily sanitized, and temporary construction cover.
 6. Length: Stair width [less 1 inch maximum].
 7. Mounting type: Embedded nosing for flush mounting.
 8. Aluminum nosing color: [Clear anodized.] [Yellow powder coat.] [Black powder coat.] [Custom color powder coat.]
 9. PVC isolator color: [Black.] [Gray.] [Yellow.]

**** OR ****

- D. Photoluminescent Stair Nosings:
1. Model: STNC3 for concrete filled steel pan, cast-in-place concrete, and precast concrete stairs.
 2. Tested and listed to UL 1994.
 3. Pass UL 410 requirements for slip resistance.
 4. Meet requirements for 90 minute photoluminescent emergency illumination.
 5. Description: 3 inches wide, 1 inch wide replaceable photoluminescent strip similar to golf ball cover materials, washable and easily sanitized, extra traction, and temporary construction cover.
 6. Length: Stair width [less 1 inch maximum].
 7. Mounting type: Embedded nosing for flush mounting.
 8. Aluminum nosing color: [Clear anodized.] [Yellow powder coat.] [Black powder coat.] [Custom color powder coat.]

**** OR ****

- E. Photoluminescent Stair Nosings:
1. Model: STNC for cast-in-place and precast concrete stairs.
 2. Tested and listed to UL 1994.
 3. Pass UL 410 requirements for slip resistance.
 4. Meet requirements for 90 minute photoluminescent emergency illumination.
 5. Description: Embedded flush mounted four piece construction; 2 inch isolator, 1-1/2 inch wide anodized aluminum nosing, 1 inch wide replaceable photoluminescent strip similar to golf ball cover materials, washable and easily sanitized, and temporary construction cover.
 6. Length: Stair width [less 1 inch maximum].
 7. Mounting type: Embedded nosing for flush mounting.
 8. Aluminum nosing color: [Clear anodized.] [Yellow powder coat.] [Black powder coat.] [Custom color powder coat.]
 9. PVC isolator color: [Black.] [Gray.] [Yellow.]

2.4 ACCESSORIES

- A. Temporary Construction Cover: Provided by manufacturer of stair nosings; PVC construction, removable.
- B. Adhesive: Type recommended by nosing manufacturer.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install in accordance with [NFPA 101,] [ICC IBC,] [ICC IFC,] [____,] manufacturer's instructions, and approved Shop Drawings.

B. Set nosings plumb, level, and rigid.

END OF SECTION