**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.

This guide specification section has been prepared by Safe-T-Nose for use in the preparation of a project specification section covering photoluminescent nosings for stairs.

The following should be noted in using this specification:

Hypertext links to specific websites are included after manufacturer names and names of organizations whose standards are referenced within the text, to assist in product selection and further research. Hypertext links are contained in parenthesis and shown in blue, e.g.:

 [(www.astm.org](http://(www.astm.org))

Items requiring user input are enclosed within brackets and included as red text, e.g.:

 Section [09 00 00] [\_\_ \_\_ \_\_.]

Optional paragraphs are separated by an "OR" statement included as red text, e.g.:

\*\*\*\* OR \*\*\*\*

For assistance on the use of the products in this section, contact Safe-T-Nose LLC by calling 855-723-6673, by email at sales@safetnose.com, or visit their website at [www.safetnose.com](http://www.safetnose.com).

This specification has been prepared based on SimpleSpecs™-Specs specification templates. The SimleSpecs™ Specs Master Guide Specification system comprises a full architectural master specification that can be used to specify all project requirements. For additional information on SimpleSpecs™ Specs products visit the ZeroDocs.com website at www.zerodocs.com

1. **GENERAL**
	1. SUMMARY

Edit the following to include only those items specified in this section.

* + 1. Section Includes:
			1. Photoluminescent stair nosings.

Coordinate the following with other sections in the Project Manual.

* + 1. 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. REFERENCES

Edit the following to include only those references used elsewhere in this section.

* + 1. ASTM International (ASTM) [(www.astm.com)](http://www.astm.com) E2072 - Standard Specification for Photoluminescent (Phosphorescent) Safety Markings.
		2. International Code Council (ICC) [(www.iccsafe.com)](http://www.iccsafe.com):
			1. International Building Code (IBC).
			2. International Fire Code (IFC).
		3. National Fire Protection Association (NFPA) [(www.nfpa.org](http://www.nfpa.org)) 101 - Life Safety Code.
		4. Underwriters Laboratories, Inc. (UL) [(www.ul.com)](http://www.ul.com):
			1. 410 - Standard for Slip Resistance of Floor Surface Materials.
			2. 1994 - Standard for Luminous Egress Path Marking Systems.
		5. United States Department of Justice (USDOJ) [(www.ada.gov](http://www.ada.gov)) - ADA Standards for Accessible Design (SAD).
	1. SUBMITTALS

Retain the following for submittals requiring the Design Professional’s review.

* + 1. 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.

Retain the following for submission of informational submittals. These submittals are for the Owner's record purposes only.

* + 1. Informational Submittals:
			1. Certificates of Compliance: Show product compliance with reference standards.

Retain the following for closeout submittals for the Owner's record purposes.

* + 1. Closeout Submittals:
			1. Maintenance Data: Include recommendations for cleaning and routine maintenance.
	1. QUALITY ASSURANCE

Retain the following if required; edit to suit project requirements.

* + 1. Installer Qualifications: Minimum [2] [\_\_] years experience in work of this Section.
		2. Provide nosings in accordance with [NFPA 101.] [ICC IBC.] [ICC IFC.] [\_\_\_\_.]
		3. Meet requirements of [USDOJ ADA.] [applicable accessibility code.]
	1. DELIVERY, STORAGE AND HANDLING
		1. Store nosings in cool, dry location in original packaging until installed.
	2. WARRANTY
		1. Provide manufacturer’s 25 year warranty against loss of photoluminescence for following periods.
1. **PRODUCTS**
	1. MANUFACTURERS
		1. Contract Documents are based on products by Safe-T-Nose LLC. [(www.safetnose.com](http://www.safetnose.com))

Edit the following to indicate whether or not substitutions will be permitted for the products in this section.

* + 1. Substitutions: [Refer to Division 01.] [Not permitted.]
	1. MATERIALS
		1. Extruded Aluminum: 6063-T5 alloy and temper.
		2. Reflectance Material: Photoluminescent pigment embedded in ionomer resin carriers.
		3. Photoluminescent Area Luminance Properties: ASTM E2072 and UL 1994.
			1. From test sample activation: 10.76 lx (1.000 fc) for 60.0 minutes:
				1. For 10 minutes after lights go out: Minimum 30 mcd per square meter.
				2. For 60 minutes after lights go out: Minimum 7 mcd per square meter.
				3. For 90 minutes after light go out: Minimum 5 mcd per square meter.
	2. MANUFACTURED UNITS

United States Department of Justice (USDOJ) (www.ada.gov) - ADA Standards for Accessible Design (SAD) requires a contrasting stripe for the visually impaired and color contrast for top and bottom of risers. Exterior risers should be yellow. Use a contrasting color for the tread on interior.

Retain the following for a retrofit nosing for existing wood, metal, or concrete stairs.

* + 1. 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].

Nosings are available in single lengths up to 12 feet.

* + - 1. Length: Stair width [less 1 inch maximum].
			2. Mounting type: As required by substrate conditions.
			3. Aluminum nosing color: [Clear anodized.] [Yellow powder coat.] [Black powder coat.] [Custom color powder coat.]

\*\*\*\* OR \*\*\*\*

Retain the following for a nosing for shop-fabricated stairs.

* + 1. 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.

Nosings are available in single lengths up to 12 feet.

* + - 1. Length: Stair width [less 1 inch maximum].
			2. Aluminum nosing color: [Clear anodized.] [Yellow powder coat.] [Black powder coat.] [Custom color powder coat.]

\*\*\*\* OR \*\*\*

Retain the following for a nosing for concrete filled steel pan stairs.

* + 1. 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.

Nosings are available in single lengths up to 12 feet.

* + - 1. Length: Stair width [less 1 inch maximum].
			2. Mounting type: Embedded nosing for flush mounting.
			3. Aluminum nosing color: [Clear anodized.] [Yellow powder coat.] [Black powder coat.] [Custom color powder coat.]
			4. PVC isolator color: [Black.] [Gray.] [Yellow.]

\*\*\*\* OR \*\*\*\*

Retain the following for a nosing for concrete filled steel pan, cast-in-place, and precast concrete stairs.

* + 1. 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.

Nosings are available in single lengths up to 12 feet.

* + - 1. Length: Stair width [less 1 inch maximum].
			2. Mounting type: Embedded nosing for flush mounting.
			3. Aluminum nosing color: [Clear anodized.] [Yellow powder coat.] [Black powder coat.] [Custom color powder coat.]

\*\*\*\* OR \*\*\*\*

Retain the following for a nosing for cast-in-place and precast concrete stairs.

* + 1. 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.

Nosings are available in single lengths up to 12 feet.

* + - 1. Length: Stair width [less 1 inch maximum].
			2. Mounting type: Embedded nosing for flush mounting.
			3. Aluminum nosing color: [Clear anodized.] [Yellow powder coat.] [Black powder coat.] [Custom color powder coat.]
			4. PVC isolator color: [Black.] [Gray.] [Yellow.]
	1. ACCESSORIES

Retain the following for a temporary cover to protect nosings during construction.

* + 1. Temporary Construction Cover: Provided by manufacturer of stair nosings; PVC construction, removable.
		2. Adhesive: Type recommended by nosing manufacturer.
1. **EXECUTION**
	1. INSTALLATION
		1. Install in accordance with [NFPA 101,] [ICC IBC,] [ICC IFC,] [\_\_\_\_,] manufacturer’s instructions, and approved Shop Drawings.
		2. Set nosings plumb, level, and rigid.

END OF SECTION