

Section 05 55 00

Stair Treads and Nosings

This specification has been numbered, organized and formatted in accordance with the MasterFormat, Section Format and Page Format documents published jointly by Construction Specifications Institute (CSI). For convenience, all products are contained within Section 05 55 00 (Stair Nosings) but if desired may be edited/adapted to suit any other Section(s) of Work in accordance with project requirements.

It is offered as a guide to experienced and knowledgeable construction professionals who assume full responsibility for its interpretation and use. Square brackets [] containing text indicate an option to be considered/inserted by the specifier. Remove brackets and unused options before printing.

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 one of the following methods:

- Microsoft Word: Click the OFFICE button, select WORD OPTIONS, select DISPLAY, and then select or deselect the HIDDEN TEXT option.
- Microsoft Word (earlier versions): From the pull-down menus select TOOLS, then OPTIONS. Under the tab labeled VIEW, select or deselect the HIDDEN TEXT option.
- Corel WordPerfect: From the pull-down menus select VIEW, then select or deselect the HIDDEN TEXT option.

Section 05 55 00
Stair Treads and Nosings

Part 1 General

1.1 Summary

- A This section includes the following:
 - 1 Stair nosings
 - 2 Stair nosings with photoluminescent

1.2 Related Sections:

- A Section 03 00 00 – Concrete Work
- B Section 03 30 00 – Cast-in-Place Concrete
- C Section 03 40 00 – Architectural Precast Concrete
- D Section 05 51 00 – Metal Stairs.

1.3 References

- A Americans with Disabilities Act (ADA)
- B ASTM D4828-94(2003), Standard Test Methods for Practical Washability of Organic Coatings.
- C ASTM B136-84(1998), Standard Test Method for Measurement of Stain Resistance of Anodic Coatings on Aluminum.
- D [National Fire Protection Association (NFPA) 101 - Life Safety Code]
- E [2009 International Building Code / International Fire Code (IBC/IFC) section 1024]
[2012 International Building Code / International Fire Code (IBC/IFC) section 1024]
[2015 International Building Code / International Fire Code (IBC/IFC) section 1025]
[2018 International Building Code / International Fire Code (IBC/IFC) section 1025]
- F [New York City LL 141 Photoluminescent Exit Path Markings section 1024]
- G Underwriters Laboratories, Inc. (UL) UL 1994 Standard for Safety, Luminous Egress Path Marking Systems.
- H American Society for Testing & Materials (ASTM) ASTM E2072, Standard Specification for Photoluminescent (Phosphorescent) Safety Markings and E2073 – Standard Test Method for Photopic Luminance of Photoluminescent (Phosphorescent) Markings.

1.4 Quality Assurance

- A Manufacturer Qualifications: to have minimum of 5 years experience with similar work.
- B Installer Qualifications: to be manufacturer trained/authorized installer.

1.5 Submittals

- A Submit the following [in accordance with Section 01 33 00 – Submittal Procedures]:
 - 1 Product Data: Manufacturer's product data sheets for product used.
 - 2 Installation instructions

- 3 Samples: 12" size for review showing final color. Label samples with product codes and intended use.
- 4 Substitutions: Substitutions must be submitted and approved prior to bid date. All requests shall include test results, product descriptions, confirmation of piece design and engineering calculations meeting design criteria.

Include the following for submission of sustainable design submittals.

- B. Sustainable Design Submittals:
 1. Regional Materials: Certify manufacturing location.
 2. Construction Waste Management Divert from Land Fill: Certify if products are made with materials that are recyclable.
 3. Recycled Content: Certify percent recycled content and designate whether pre-consumer or post-consumer.
 4. VOC content for installation adhesives.
- 1.6 Delivery, Storage and Handling
 - A Handle and store Products in a manner to prevent damage, deterioration and soiling to Products, other building components, assemblies, other Products, the structure, the Site and surrounding property and in accordance with manufacturer's instructions.
 - B Store products subject to damage from weather in weatherproof enclosures.
- 1.7 Warranty
 - A Provide manufacturer's limited warranty. Warranty to cover defects in materials and workmanship.
 - 1 Aluminum Base Products: (5) years from the date of Substantial Performance of the Work.
 - 2 25 Year Warranty on photoluminescent performance

Part 2 Products

- 2.1 Manufacturers
 - A Contract Documents are based on products by Ecoglo Inc. (www.ecoglo.us)
 - B Substitutions: [Under provisions of Division 01.] Submit for consideration prior to bid closing.
- 2.2 Materials
 - A Aluminum Base Products:
 - 1 Extruded Aluminum Nosings: 6060T5 extrusion anodized to Class 1, .0007" (20 microns) thickness.

- 2 Reflectance material: strontium aluminate-based photoluminescent pigment embedded in thermoset polyester carriers that integrally bond the active ingredients into powder coated aluminum substrates following curing at 350°F (180°C).
- 3 Materials shall be UL 1994 listed.
- 4 UV resistance of photoluminescent properties: Loss of luminance after 1000 hrs. as per ASTM G-155 Cycle 1 exposure: < 10%.
- 5 Materials shall show no detrimental effects after 2,000 hrs. when tested under ASTM G-155 – Accelerated Weathering
- 6 Non-slip surface: silicon carbide integrally bonded into powder-coated aluminum substrates following curing at 350°F (180°C).

2.3 Components

**** NOTE TO SPECIFIER ** Delete items below not required for project.**
[Click Here](#) to view *Ecoglo Step Edge Products*

A Photoluminescent Step Edge Contrast Strips

Photoluminescent Contrast Strips shall provide step edge color contrast and slip resistance.

- 1 Photoluminescent material shall be recessed within powder coated aluminum ridges which provide slip resistance and protect the photoluminescent material.
- 2 Photoluminescent material utilized in step edge markings shall not have an abrasive texture that collects dirt and results in lower photoluminescent performance.
- 3 Step edge products shall include an integrally bonded silicon carbide abrasive non-slip component that provides color contrast.
- 4 Step edge products shall be made of aluminum base material. Flexible tape products and vinyl materials are not acceptable.
- 5 Photoluminescent material shall be 1 inch wide, or UL 1994 listed.

Step Edge Product Code: [E4073]
 Description: [2" wide aluminum base step edge strip with 1" wide photoluminescent and 1" wide Black color contrasting Anti-slip.]
 Color of Anti-Slip Area: [Black]

SPEC NOTE: The listed italics data included in table below provide product codes, descriptions and colors. Specification articles (product selections) contained within square brackets [] are shown as example choices only.

| <i>Product Code</i> | <i>Description</i> | <i>Color of Anti-Slip Area</i> |
|----------------------------|---------------------------|---------------------------------------|
| | | |

| | | |
|-------------------|---|------------------------------|
| <i>E20 Series</i> | <i>1.5" wide aluminum base step edge strip with 0.6" wide photoluminescent recessed within powder coated ridges and 0.9" wide color contrasting silicon carbide anti-slip. Install using premium polyurethane adhesive.</i> | <i>Black / Gray / Yellow</i> |
| <i>E30 Series</i> | <i>2" wide aluminum base step edge strip with 0.6" wide photoluminescent recessed within powder coated ridges and 1.4" wide color contrasting silicon carbide anti-slip. Install using premium polyurethane adhesive.</i> | <i>Black / Gray / Yellow</i> |
| <i>E40 Series</i> | <i>2" wide aluminum base step edge strip with 1" wide photoluminescent recessed within powder coated ridges and 1" wide color contrasting silicon carbide anti-slip. Install using premium polyurethane adhesive.</i> | <i>Black / Gray / Yellow</i> |
| <i>E4073</i> | <i>2" wide aluminum base step edge strip with 1" wide photoluminescent recessed within powder coated ridges and 1" wide color contrasting silicon carbide anti-slip. Install using premium polyurethane adhesive.</i> | <i>Black</i> |

B Non-Slip Step Edge Strips

Non-Slip Strips shall provide step edge color contrast and slip resistance.

- 1 Step edge products shall include an integrally bonded silicon carbide abrasive non-slip component that provides color contrast.
- 2 Step edge products shall be made of aluminum base material. Flexible tape products and vinyl materials are not acceptable.

Non-Slip Step Edge Product Code: [N3070]

Description: [2" wide aluminum base step edge strip with color contrasting silicon carbide anti-slip. Install using premium polyurethane adhesive.]

Color of Anti-Slip Area: [Black]

SPEC NOTE: The listed italics data included in table below provide product codes, descriptions and colors. Specification articles (product selections) contained within square brackets [] are shown as example choices only.

| Product Code | Description | Color of Anti-Slip Area |
|---------------------|---|--------------------------------|
| <i>N20 Series</i> | <i>1.5" wide aluminum base step edge strip with color contrasting silicon carbide anti-slip. Install using premium polyurethane adhesive.</i> | <i>Black / Gray / Yellow</i> |
| <i>N30 Series</i> | <i>2" wide aluminum base step edge strip with color contrasting silicon carbide anti-slip. Install using premium polyurethane adhesive.</i> | <i>Black / Gray / Yellow</i> |

C Photoluminescent Flat Stair Nosings

Photoluminescent flat nosings shall provide step edge color contrast and slip resistance.

- 1 Photoluminescent material shall be recessed within powder coated aluminum ridges which provide slip resistance and protect the photoluminescent material.

- 2 Photoluminescent material utilized in step edge markings shall not have an abrasive texture that collects dirt and results in lower photoluminescent performance.
- 3 Step edge products shall include an integrally bonded silicon carbide abrasive non-slip component that provides color contrast.
- 4 Step edge products shall be made of aluminum base material. Flexible tape products and vinyl materials are not acceptable.
- 5 Photoluminescent material shall be 1 inch wide, or UL 1994 listed.

Photoluminescent Flat Stair Nosing Product Code: [F4-E20]

Description: [Clear anodized aluminum extrusion with replaceable insert adhesively fixes into extrusion; powder coated extruded aluminum insert with strontium aluminate based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material.]

Color of Anti-Slip Area: [Black]

SPEC NOTE: The listed italics data included in table below provide product codes, descriptions and colors. Specification articles (product selections) contained within square brackets [] are shown as example choices only.

| Flat Stair Nosings | | |
|---------------------------|--|------------------------------|
| <i>F4-E20 Series</i> | Clear anodized aluminum extrusion with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black / Gray / Yellow</i> |
| <i>F5101</i> | Clear anodized aluminum extrusion with powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels. | N/A |
| <i>F5B-E20 Series</i> | Clear anodized aluminum extrusion with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black / Gray / Yellow</i> |
| <i>F6-E20 Series</i> | Clear anodized aluminum extrusion with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black / Gray / Yellow</i> |
| <i>F7-E30 Series</i> | Clear anodized aluminum extrusion with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black / Gray / Yellow</i> |
| <i>F7-E40 Series</i> | Clear anodized aluminum extrusion with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black / Gray / Yellow</i> |

| | | |
|-----------------------|--|------------------------------|
| <i>F7-E4073</i> | Clear anodized aluminum extrusion with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black</i> |
| <i>F8-E30 Series</i> | Clear anodized aluminum extrusion with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black / Gray / Yellow</i> |
| <i>F8-E40 Series</i> | Clear anodized aluminum extrusion with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black / Gray / Yellow</i> |
| <i>F8-E4073</i> | Clear anodized aluminum extrusion with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black</i> |
| <i>RF5-E30 Series</i> | Clear anodized aluminum extrusion with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black / Gray / Yellow</i> |
| <i>RF5-E40 Series</i> | Clear anodized aluminum extrusion with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black / Gray / Yellow</i> |
| <i>RF5-E4073</i> | Clear anodized aluminum extrusion with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black</i> |
| <i>RF7-E30 Series</i> | Clear anodized aluminum extrusion with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black / Gray / Yellow</i> |
| <i>RF7-E40 Series</i> | Clear anodized aluminum extrusion with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black / Gray / Yellow</i> |
| <i>RF7-E4073</i> | Clear anodized aluminum extrusion with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black</i> |

D Non-slip Flat Stair Nosings

Non-Slip Nosings shall provide step edge color contrast and slip resistance.

- 1 Step edge products shall include an integrally bonded silicon carbide abrasive non-slip component that provides color contrast.

- 2 Step edge products shall be made of aluminum base material. Flexible tape products and vinyl materials are not acceptable.

Non-slip Flat Stair Nosing Product Code: [F4-N20]
 Description: [Clear anodized aluminum extrusion with replaceable insert adhesively fixes into extrusion; powder coated extruded aluminum insert with strontium aluminate based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material.]
 Color of Anti-Slip Area: [Black]

SPEC NOTE: The listed italics data included in table below provide product codes, descriptions and colors. Specification articles (product selections) contained within square brackets [] are shown as example choices only.

| Flat Stair Nosings | | |
|---------------------------|--|------------------------------|
| <i>F4-N20 Series</i> | F4 series clear anodized aluminum extrusion with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with silicon carbide non-slip. | <i>Black / Gray / Yellow</i> |
| <i>F5B-N20 Series</i> | F5B series clear anodized aluminum extrusion with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with silicon carbide non-slip. | <i>Black / Gray / Yellow</i> |
| <i>F6-N20 Series</i> | F6 series clear anodized aluminum extrusion with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with silicon carbide non-slip. | <i>Black / Gray / Yellow</i> |
| <i>F7-N30 Series</i> | F7 series clear anodized aluminum extrusion with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with silicon carbide non-slip. | <i>Black / Gray / Yellow</i> |
| <i>F8-N30 Series</i> | F8 series clear anodized aluminum extrusion with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with silicon carbide non-slip. | <i>Black / Gray / Yellow</i> |
| <i>RF5-N30 Series</i> | RF5 series clear anodized aluminum extrusion with 2 sets of replaceable non-slip insert adhesively fixed into extrusion; powder coated extruded aluminum insert with silicon carbide non-slip. | <i>Black / Gray / Yellow</i> |
| <i>RF7-N30 Series</i> | RF7 series clear anodized aluminum extrusion with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with silicon carbide non-slip. | <i>Black / Gray / Yellow</i> |

E Photoluminescent Cast-In-Place Stair Nosings

Photoluminescent cast-in-place nosings are installed into wet concrete and shall provide step edge color contrast and slip resistance.

- 1 Cast-in-Place nosings shall be installed with a clear protective cover that keeps the product clean and prevents damage during construction. The clear cover shall be removed towards the end of the construction project.

- 2 Mill finish aluminum that is being cast into wet concrete must have a clear coating to prevent a reaction between the aluminum and concrete.
- 3 Photoluminescent material shall be recessed within powder coated aluminum ridges which provide slip resistance and protect the photoluminescent material.
- 4 Photoluminescent material utilized in step edge markings shall not have an abrasive texture that collects dirt and results in lower photoluminescent performance.
- 5 Step edge products shall include an integrally bonded silicon carbide abrasive non-slip component that provides color contrast.
- 6 Step edge products shall be made of aluminum base material. Flexible tape products and vinyl materials are not acceptable.
- 7 Photoluminescent material shall be 1 inch wide, or UL 1994 listed.

Photoluminescent Cast-In-Place Stair Nosing Product Code: [S4-E30]

Description: [Clear anodized aluminum extrusion with replaceable insert adhesively fixes into extrusion; powder coated extruded aluminum insert with strontium aluminate based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material.]

Color of Anti-Slip Area: [Black]

SPEC NOTE: The listed italics data included in table below provide product codes, descriptions and colors. Specification articles (product selections) contained within square brackets [] are shown as example choices only.

| Photoluminescent Cast-In-Place Stair Nosings | | |
|---|--|------------------------------|
| <i>S1-E30 Series</i> | <i>Cast in place step edge nosing for installation into wet concrete. Extruded aluminum cast in place profile with clear acrylic lacquer coating. Replaceable powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip.</i> | <i>Black / Gray / Yellow</i> |
| <i>S1-E40 Series</i> | <i>Cast in place step edge nosing for installation into wet concrete. Extruded aluminum cast in place profile with clear acrylic lacquer coating. Replaceable powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip.</i> | <i>Black / Gray / Yellow</i> |
| <i>S1-E4073</i> | <i>Cast in place step edge nosing for installation into wet concrete. Extruded aluminum cast in place profile with clear acrylic lacquer coating. Replaceable powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip.</i> | <i>Black</i> |
| <i>S2-E30 Series</i> | <i>Cast in place step edge nosing for installation into wet concrete. Clear anodized extruded aluminum cast in place profile. Replaceable powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip.</i> | <i>Black / Gray / Yellow</i> |

| | | |
|----------------------|--|------------------------------|
| <i>S2-E40 Series</i> | <i>Cast in place step edge nosing for installation into wet concrete. Clear anodized extruded aluminum cast in place profile. Replaceable powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip.</i> | <i>Black / Gray / Yellow</i> |
| <i>S2-E4073</i> | <i>Cast in place step edge nosing for installation into wet concrete. Clear anodized extruded aluminum cast in place profile. Replaceable powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip.</i> | <i>Black</i> |
| <i>S3-G5001</i> | <i>Cast in place step edge nosing for installation into wet concrete. Extruded aluminum cast in place profile with clear acrylic lacquer coating. Replaceable powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip.</i> | <i>Black / Gray / Yellow</i> |
| <i>S3-G6001</i> | <i>Cast in place step edge nosing for installation into wet concrete. Extruded aluminum cast in place profile with clear acrylic lacquer coating. Replaceable powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip.</i> | <i>Black / Gray / Yellow</i> |
| <i>S4-E30 Series</i> | <i>Cast in place step edge nosing for installation into wet concrete. Extruded aluminum cast in place profile with clear acrylic lacquer coating. Replaceable powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip.</i> | <i>Black / Gray / Yellow</i> |
| <i>S4-E40 Series</i> | <i>Cast in place step edge nosing for installation into wet concrete. Extruded aluminum cast in place profile with clear acrylic lacquer coating. Replaceable powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip.</i> | <i>Black / Gray / Yellow</i> |
| <i>S4-E4073</i> | <i>Cast in place step edge nosing for installation into wet concrete. Extruded aluminum cast in place profile with clear acrylic lacquer coating. Replaceable powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip.</i> | <i>Black</i> |

F Non-Slip Cast-In-Place Stair Nosings

Non-Slip Nosings cast-in-place nosings are installed into wet concrete and shall provide step edge color contrast and slip resistance.

- 1 Cast-in-Place nosings shall be installed with a clear protective cover that keeps the product clean and prevents damage during construction. The clear cover shall be removed towards the end of the construction project.
- 2 Mill finish aluminum that is being cast into wet concrete must have a clear coating to prevent a reaction between the aluminum and concrete.
- 3 Step edge products shall include an integrally bonded silicon carbide abrasive non-slip component that provides color contrast.

- 4 Step edge products shall be made of aluminum base material. Flexible tape products and vinyl materials are not acceptable.

Non-Slip Cast-In-Place Stair Nosing Product Code: [S4-N30]

Description: [Clear anodized aluminum extrusion with replaceable insert adhesively fixes into extrusion; powder coated extruded aluminum insert with strontium aluminate based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material.]

Color of Anti-Slip Area: [Black]

SPEC NOTE: The listed italics data included in table below provide product codes, descriptions and colors. Specification articles (product selections) contained within square brackets [] are shown as example choices only.

| <i>Non-Slip Cast-In-Place Stair Nosings</i> | | |
|--|---|------------------------------|
| <i>S1-N30 Series</i> | <i>Cast in place step edge nosing for installation into wet concrete. Extruded aluminum cast in place profile with clear acrylic lacquer coating. Replaceable powder coated extruded aluminum insert with silicon carbide non-slip.</i> | <i>Black / Gray / Yellow</i> |
| <i>S2-N30 Series</i> | <i>Cast in place step edge nosing for installation into wet concrete. Clear anodized extruded aluminum cast in place profile. Replaceable powder coated extruded aluminum insert with silicon carbide non-slip.</i> | <i>Black / Gray / Yellow</i> |
| <i>S3-N</i> | <i>Cast in place step edge nosing for installation into wet concrete. Extruded aluminum cast in place profile with clear acrylic lacquer coating. Replaceable powder coated extruded aluminum insert with silicon carbide non-slip.</i> | <i>Black / Gray / Yellow</i> |
| <i>S4-N30 Series</i> | <i>Cast in place step edge nosing for installation into wet concrete. Extruded aluminum cast in place profile with clear acrylic lacquer coating. Replaceable powder coated extruded aluminum insert with silicon carbide non-slip.</i> | <i>Black / Gray / Yellow</i> |

G Photoluminescent Carpet Stair Nosings

Photoluminescent carpet nosings are installed on carpeted stairs and shall provide step edge color contrast and slip resistance.

- 1 Photoluminescent material shall be recessed within powder coated aluminum ridges which provide slip resistance and protect the photoluminescent material.
- 2 Photoluminescent material utilized in step edge markings shall not have an abrasive texture that collects dirt and results in lower photoluminescent performance.
- 3 Step edge products shall include an integrally bonded silicon carbide abrasive non-slip component that provides color contrast.
- 4 Step edge products shall be made of aluminum base material. Flexible tape products and vinyl materials are not acceptable.
- 5 Photoluminescent material shall be 1 inch wide, or UL 1994 listed.

Photoluminescent Carpet Stair Nosing Product Code: [C4-E20]

Description: [Clear anodized aluminum carpet stair nosing with replaceable insert adhesively fixes into extrusion; powder coated extruded aluminum insert with strontium aluminate based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material.]

Color of Anti-Slip Area: [Black]

SPEC NOTE: The listed italics data included in table below provide product codes, descriptions and colors. Specification articles (product selections) contained within square brackets [] are shown as example choices only.

| Photoluminescent Carpet Stair Nosings | | |
|--|--|--------------------------------------|
| <i>C4-E20 Series</i> | Clear anodized aluminum carpet stair nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black / Gray / Yellow</i> |
| <i>C5-E20 Series</i> | Clear anodized aluminum carpet stair nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black / Gray / Yellow</i> |
| <i>RC4-E30 Series</i> | Clear anodized aluminum carpet stair nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black / Gray / Yellow</i> |
| <i>RC4-E40 Series</i> | Clear anodized aluminum carpet stair nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black / Gray / Yellow</i> |
| <i>RC4-E4073</i> | Clear anodized aluminum carpet stair nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black</i> |
| <i>RC5-E30 Series</i> | Clear anodized aluminum carpet stair nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black / Gray / Yellow</i> |
| <i>RC5-E40 Series</i> | Clear anodized aluminum carpet stair nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black / Gray / Yellow</i> |
| <i>RC5-E4073</i> | Clear anodized aluminum carpet stair nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black</i> |

H Non-Slip Carpet Stair Nosings

Non-Slip Nosings shall provide step edge color contrast and slip resistance.

- 1 Step edge products shall include an integrally bonded silicon carbide abrasive non-slip component that provides color contrast.
- 2 Step edge products shall be made of aluminum base material. Flexible tape products and vinyl materials are not acceptable.

Photoluminescent Carpet Stair Nosing Product Code: [C4-N20]
 Description: [Clear anodized aluminum carpet stair nosing with replaceable insert adhesively fixes into extrusion; powder coated extruded aluminum insert with silicon carbide non-slip.]
 Color of Anti-Slip Area: [Black]

SPEC NOTE: The listed italics data included in table below provide product codes, descriptions and colors. Specification articles (product selections) contained within square brackets [] are shown as example choices only.

| Non-Slip Carpet Stair Nosings | | |
|--------------------------------------|--|------------------------------|
| <i>C4-N20 Series</i> | Clear anodized aluminum carpet stair nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert silicon carbide non-slip. | <i>Black / Gray / Yellow</i> |
| <i>C5-N20 Series</i> | Clear anodized aluminum carpet stair nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with silicon carbide non-slip. | <i>Black / Gray / Yellow</i> |
| <i>RC4-N30 Series</i> | Clear anodized aluminum carpet stair nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with silicon carbide non-slip. | <i>Black / Gray / Yellow</i> |
| <i>RC5-N30 Series</i> | Clear anodized aluminum carpet stair nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with silicon carbide non-slip. | <i>Black / Gray / Yellow</i> |

I Photoluminescent Tile Nosings

Photoluminescent tile nosings are installed flush with floor tiles and shall provide step edge color contrast and slip resistance.

- 1 Photoluminescent material shall be recessed within powder coated aluminum ridges which provide slip resistance and protect the photoluminescent material.
- 2 Photoluminescent material utilized in step edge markings shall not have an abrasive texture that collects dirt and results in lower photoluminescent performance.
- 3 Step edge products shall include an integrally bonded silicon carbide abrasive non-slip component that provides color contrast.

- 4 Step edge products shall be made of aluminum base material. Flexible tape products and vinyl materials are not acceptable.
- 5 Photoluminescent material shall be 1 inch wide, or UL 1994 listed.

Photoluminescent Tile Nosing Product Code: [M4.125-E30]
 Description: [Clear anodized aluminum tile nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material.]
 Color of Anti-Slip Area: [Black]

SPEC NOTE: The listed italics data included in table below provide product codes, descriptions and colors. Specification articles (product selections) contained within square brackets [] are shown as example choices only.

| Photoluminescent Tile Nosings | | |
|--------------------------------------|--|------------------------------|
| <i>M4.10-E30 Series</i> | Clear anodized aluminum tile nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black / Gray / Yellow</i> |
| <i>M4.10-E40 Series</i> | Clear anodized aluminum tile nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black / Gray / Yellow</i> |
| <i>M4.125-E30 Series</i> | Clear anodized aluminum tile nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black / Gray / Yellow</i> |
| <i>M4.125-E40 Series</i> | Clear anodized aluminum tile nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black / Gray / Yellow</i> |

J Non-Slip Tile Nosings

Non-Slip tile Nosings are installed flush with floor tiles and shall provide step edge color contrast and slip resistance.

- 1 Step edge products shall include an integrally bonded silicon carbide abrasive non-slip component that provides color contrast.
- 2 Step edge products shall be made of aluminum base material. Flexible tape products and vinyl materials are not acceptable.

Non-Slip Tile Nosing Product Code: [M4.125-N30]

Description: [Clear anodized aluminum tile nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with silicon carbide non-slip material.]
 Color of Anti-Slip Area: [Black]

SPEC NOTE: The listed italics data included in table below provide product codes, descriptions and colors. Specification articles (product selections) contained within square brackets [] are shown as example choices only.

| <i>Non-Slip Tile Nosings</i> | | |
|-------------------------------------|--|------------------------------|
| <i>M4.10-N30 Series</i> | Clear anodized aluminum tile nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with silicon carbide non-slip. | <i>Black / Gray / Yellow</i> |
| <i>M4.125-E30 Series</i> | Clear anodized aluminum tile nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with silicon carbide non-slip. | <i>Black / Gray / Yellow</i> |

K Photoluminescent Resilient Flooring Nosings

Photoluminescent Resilient Flooring Nosings are installed flush with resilient flooring and shall provide step edge color contrast and slip resistance.

- 1 Photoluminescent material shall be recessed within powder coated aluminum ridges which provide slip resistance and protect the photoluminescent material.
- 2 Photoluminescent material utilized in step edge markings shall not have an abrasive texture that collects dirt and results in lower photoluminescent performance.
- 3 Step edge products shall include an integrally bonded silicon carbide abrasive non-slip component that provides color contrast.
- 4 Step edge products shall be made of aluminum base material. Flexible tape products and vinyl materials are not acceptable.
- 5 Photoluminescent material shall be 1 inch wide, or UL 1994 listed.

Photoluminescent Resilient Flooring Nosing Product Code: [RF7B-E30]
 Description: [Clear anodized aluminum resilient flooring nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material.]
 Color of Anti-Slip Area: [Black]

SPEC NOTE: The listed italics data included in table below provide product codes, descriptions and colors. Specification articles (product selections) contained within square brackets [] are shown as example choices only.

| Photoluminescent Resilient Flooring Nosings | | |
|--|--|--------------------------------------|
| <i>RF7B-E30 Series</i> | Clear anodized aluminum resilient flooring nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black / Gray / Yellow</i> |
| <i>RF7B-E40 Series</i> | Clear anodized aluminum resilient flooring nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black / Gray / Yellow</i> |
| <i>RF7C-E30 Series</i> | Clear anodized aluminum resilient flooring nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black / Gray / Yellow</i> |
| <i>RF7C-E40 Series</i> | Clear anodized aluminum resilient flooring nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with strontium aluminate-based photoluminescent pigment recessed into protective channels and silicon carbide non-slip material. | <i>Black / Gray / Yellow</i> |

L Non-Slip Resilient Flooring Nosings

Non-Slip Resilient Flooring Nosings are installed flush with resilient flooring and shall provide step edge color contrast and slip resistance.

- 1 Step edge products shall include an integrally bonded silicon carbide abrasive non-slip component that provides color contrast.
- 2 Step edge products shall be made of aluminum base material. Flexible tape products and vinyl materials are not acceptable.

Non-Slip Resilient Flooring Nosing Product Code: [RF7B-N30]

Description: [Clear anodized aluminum resilient flooring nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with carbide non-slip.]

Color of Anti-Slip Area: [Black]

SPEC NOTE: The listed italics data included in table below provide product codes, descriptions and colors. Specification articles (product selections) contained within square brackets [] are shown as example choices only.

Photoluminescent Resilient Flooring Nosings

| | | |
|------------------------|---|--------------------------------------|
| <i>RF7B-N30 Series</i> | Clear anodized aluminum resilient flooring nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with silicon carbide non-slip material. | <i>Black / Gray / Yellow</i> |
| <i>RF7C-N30 Series</i> | Clear anodized aluminum resilient flooring nosing with replaceable insert adhesively fixed into extrusion; powder coated extruded aluminum insert with silicon carbide non-slip material. | <i>Black / Gray / Yellow</i> |

Part 1 Execution

1.1 Examination

- A Before installation, examine surfaces on which the work of this section depends. Notify [Contractor] if substrates do not comply with requirements of this section
- B Ensure any painted surfaces are fully cured.
- C Do not proceed with work of this Section until all unsatisfactory conditions have been corrected, if any.
- D Commencement of Work will imply acceptance of surfaces.

1.2 Preparation

- A Clean surfaces to remove dirt, dust, grease, oil, loose material, frost, paint, coatings, or other matter that may affect bonding or installation of products.
- B Test substrates for fit with products before using adhesives or mechanical fastening.

1.3 Installation

- A Unless otherwise indicated in the specifications, install Products in accordance with manufacturer's instructions. Obtain written instructions directly from manufacturer.

1.4 Cleaning

- A Trim any excess adhesive with a sharp blade.
- B At completion of installation, clean soiled Product surfaces in accordance with manufacturer's instructions.

1.5 Waste Management and Disposal

- A Separate waste materials for [reuse] [and] [recycling] at nearest used building materials facility.
- B Divert unused caulking, sealants and adhesive materials from landfill through appropriate disposal procedure listed in material safety data sheets (MSDS).

1.6 Protection

- A Allow 24 hours for adhesive cure with no foot traffic permitted if products are installed without mechanical fasteners.
- B Protect areas from damage using barriers, markers or temporary signs as required.
- C Do not allow heavy objects to come in contact with installed products.

End of Section