



International Building Code, International Fire Code,
NYC LL and NFPA 101 Compliant Photoluminescent
Egress Path Marking Solutions

Canadian and American Luminous Egress Path Markings

**INTERIOR/EXTERIOR -
NON-SLIP AND CONTRAST/
PHOTOLUMINESCENT
EMERGENCY PATH
MARKING SYSTEMS**



ABOUT

ADA Solutions

As the leading North American manufacturer of Tactile Walking Surface Indicators, ADA Solutions provides the most comprehensive alert and guidance indicators for the visually impaired community, manufactured in a state-of-the-art ISO 9002 certified facility in Ohio.

ADA Solutions designs products that enhance the safety of public rights-of-way. All our truncated dome tactile surfaces indicators are in full compliance with the Accessibility for Ontarians with Disabilities Act (AODA), Ontario Building Code (OBC), Canadian Standards Association (CSA), National Building Code (NBC), Accessible Canada Act, International Organization for Standardization (ISO), American Disabilities Act Accessibility Guidelines (ADAAG), Public Right-of-Way (PROWAG), and California Building Code requirements. All provincial and state municipalities that have adopted the current accessibility standards approve the use of ADA Solutions tactile & safety products lines.

ADA proudly serves over 1,500 distribution locations across the Americas.

ADA's anodized aluminum non-slip, contrast step edge strips comprised of silica carbide and photoluminescent material. The insert strips fit into clear anodized aluminum step-edge nosings that provide an intuitive, luminous emergency egress path marking navigation system for building occupants and first responders—allowing your projects to meet all Canadian and American International Fire Code (IFC) and International Building Code (IBC) requirements followed by the different municipal building codes.



ADA Solutions is A Division of SureWerx USA Inc.

Professional Associations



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*Wherever you
go, there we are,
keeping you safe.®*

NON-SLIP CONTRAST AND PHOTOLUMINESCENT STEP EDGE INSERT STRIPS

51 mm (2") Non-Slip Contrast Step Edge Insert Strip with Carborundum

ADA Solutions 51 mm (2") non-slip contrast step edge insert strips with carborundum are perfect for new and existing stairway projects of different types of solid hard flooring surfaces for interior or exterior applications. The strips come in 3,048 mm (10ft) lengths in standard colours of yellow and black from the factory. Our non-slip contrast step edge strips will provide your project with long-lasting and durable slip resistance protection, reducing the risk of slips and falls.

51 mm (2") Non-Slip Contrast Step Edge Insert Strip with Photoluminescent and Carborundum

ADA Solutions 51 mm (2") non-slip contrast step edge insert strip with photoluminescent and carborundum are perfect for new and existing stairway projects of different types of solid hard flooring surfaces for interior or exterior applications. The strips come in 3,048 mm (10ft) lengths in standard yellow and black carborundum colours from the factory. Our non-slip contrast step edge strips will provide your project with long-lasting and durable slip resistance protection, reducing the risk of slips and falls.

Product Features

- Extruded Aluminum Alloy 6063 - T5
- Clear Anodized (Class 1: 15-19 Microns)
- Custom anti-slip silica carbide material
- Standard colour options available: Black and Yellow, Grey available as a custom order
- Available in 3,048 mm (10ft) lengths
- Suitable for installing by itself or in conjunction with any of our nosings
- Manufacturers five (5) year warranty

Colour Options and Part Number

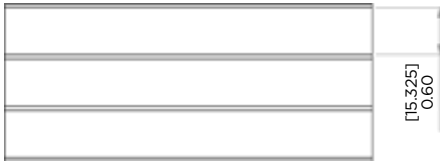
- Strip with Carborundum Product N°
 - DNSICY (Yellow)
 - DNSICG (Grey) - Custom Order
- Strip with Carborundum and Photoluminescent Product N°
 - DNSICPY (Yellow)
 - DNSICPG (Grey) - Custom Order

Installation Information

- Install Non-Slip Contrast Step Edge Insert Strip following the governing jurisdiction regulations
- Premium polyurethane adhesive is recommended
- Mechanical fasteners are an option when installing in interior applications
- Recommend #10 x 1" Flat Head, 82° Robertson Drive (CDN) or Philips Drive (US) fasteners for either Concrete, Wood or Sheet Metal with appropriate polymer/metal plugs/anchors
- For full installation instructions, please request submittal package

51 mm (2") Non-Slip Contrast Step Edge Insert Strip with Carborundum

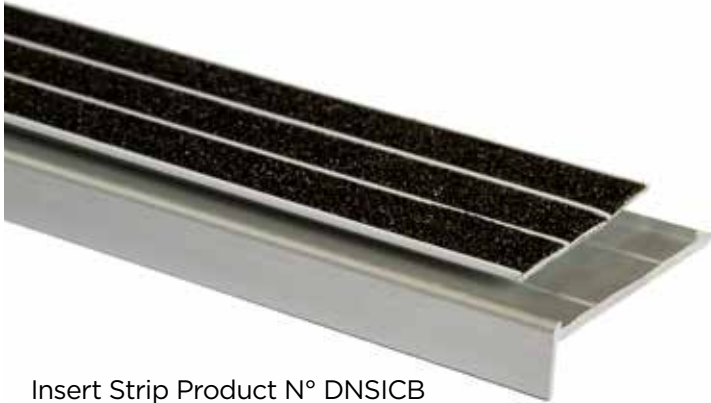
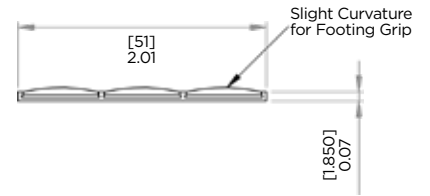
Top View



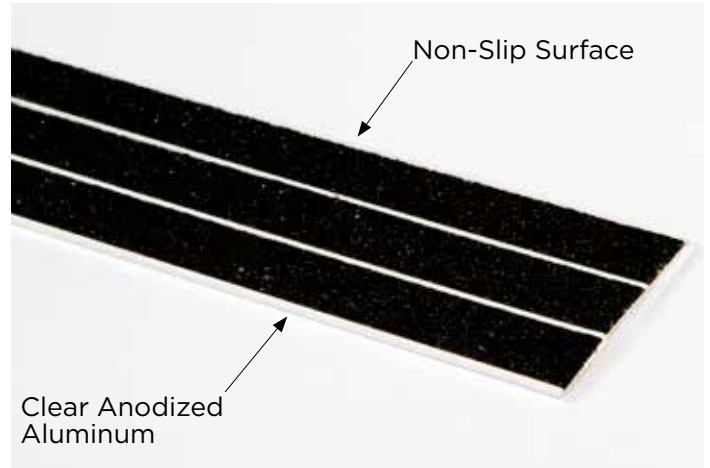
Front View



Elevation

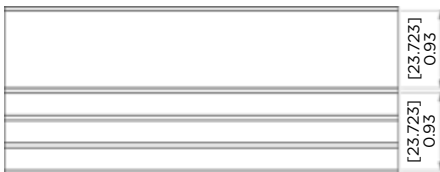


Insert Strip Product N° DNSICB
Nosing As Shown Product N° DFSN200



51 mm (2") Non-Slip Contrast Step Edge Insert Strip with Photoluminescent and Carborundum

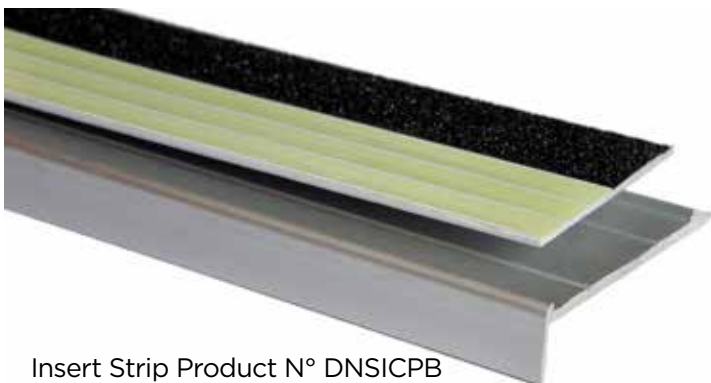
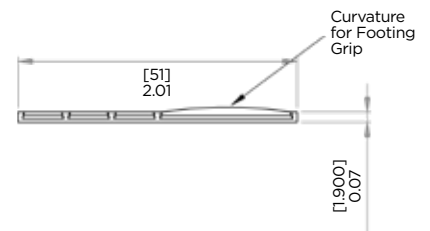
Top View



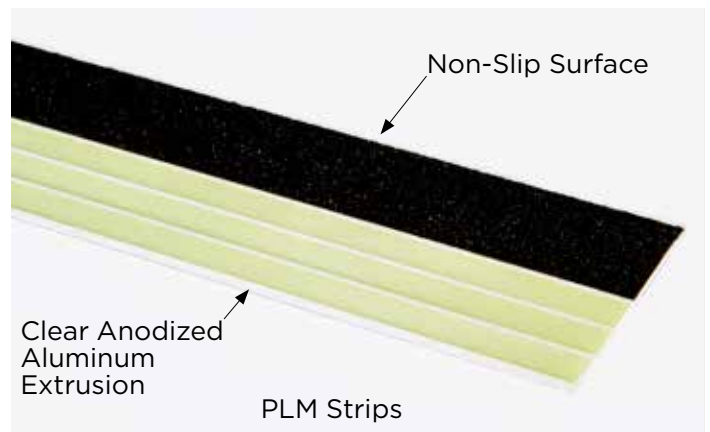
Front View



Elevation



Insert Strip Product N° DNSICPB
Nosing As Shown Product N° DFSN100



CAST-IN-PLACE NOSING

ADA Solutions clear anodized cast-in-place nosing accommodates 51 mm (2") ADA insert strips are perfect for new stairway projects for interior or exterior applications. The nosings come in 3,048 mm (10ft) lengths from the factory and can be cut on-site to step edge length requirements. Our nosings, along with the insert strips, will provide your project with long-lasting and durable slip resistance protection, reducing the risk of slips and falls.

Product Features

- Extruded Aluminum Alloy 6063 - T5
- Clear Anodized (Class 1: 15-19 Microns)
- Standard anodization colour options available: Clear (custom colours, please inquire)
- Available in 3,048 mm (10ft) lengths
- Suitable for installing in conjunction with any of our 51 mm (2") Non-Slip Contrast Step Edge Insert Strips
- Manufacturer's five (5) year warranty

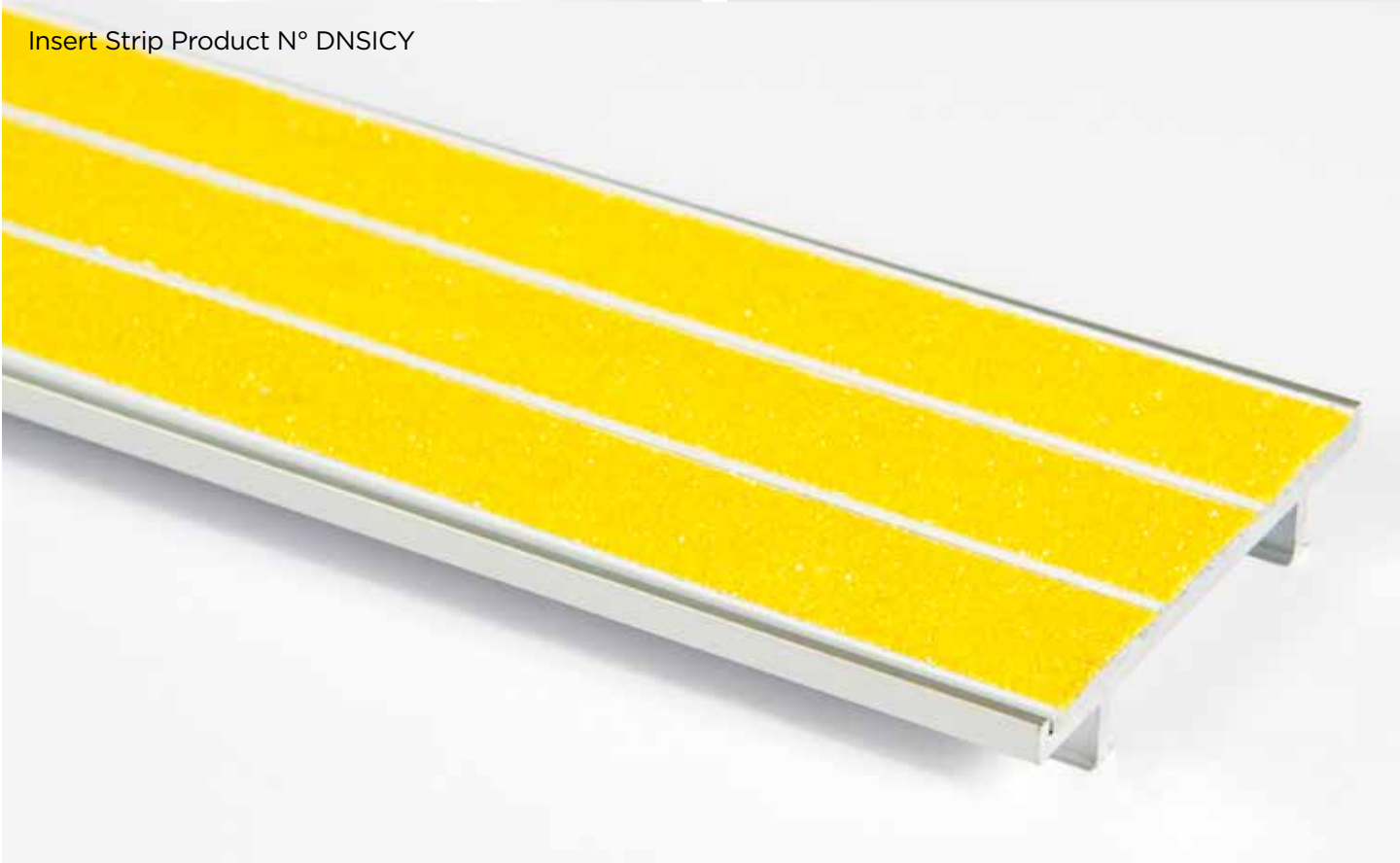
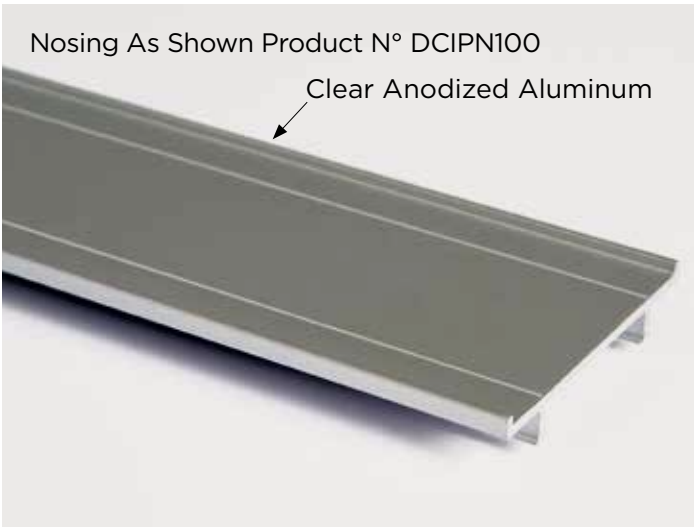
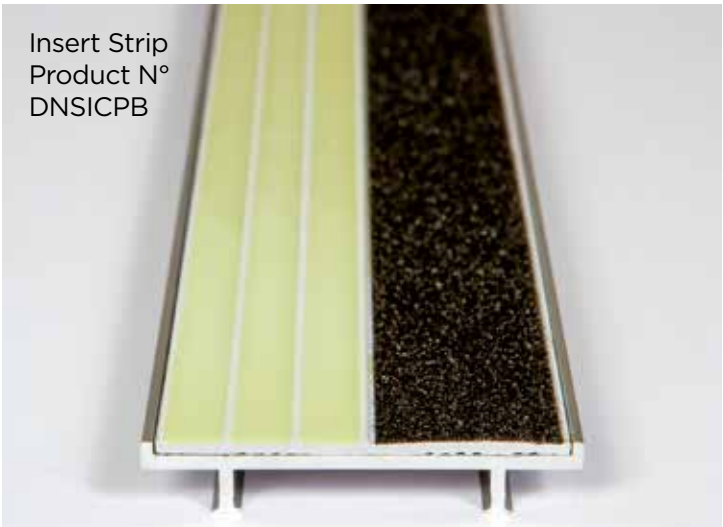
Colour Options and Part Number

- Cast-in-Place Nosing Product N°
 - DCIPN100 (Clear)
 - DCIPN100B (Black) - Custom Order
 - DCIPN100R (Red) - Custom Order
 - DCIPN100Y (Yellow) - Custom Order

Installation Information

- Install the cast-in-place nosing and non-slip contrast step edge insert strip following the governing jurisdiction regulations
- Using the proper cutting tool with a non-ferrous metal cutting blade, cut the nosing to the project specification requirements
- Ensure that the cast-in-place nosing is covered with protective painter's tape before placing it into the concrete
- Ensure that the front edge of the nosing is flush with the riser form
- Gently work the nosing into the concrete until the nosing's back edge is level with the finished edge of the tread
- After the painter's tape is removed, thoroughly clean the surface of the nosing with an appropriate cleaner
- Allow the surface to dry thoroughly
- Cut the non-slip contrast step edge insert strip with a straight snip or cutting shears to the same length of the aluminum nosing profiles
- Apply a 3.2 mm (1/8 inch) bead of polyurethane adhesive in a wave pattern over the full length of the aluminum profile nosing and apply insert strip
- Premium polyurethane adhesive is recommended for applying the insert strip
- Close off the area for 8 hours to avoid damage or moving while the adhesive is in the early stages of curing
- For full installation instructions, please request submittal package





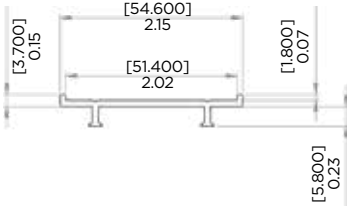
Top View



Front View



Elevation



FLAT STAIR NOSING

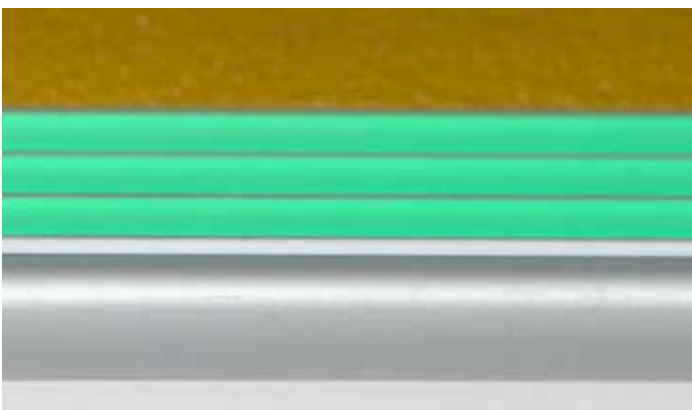
90° Front Edge

ADA Solutions clear anodized 90° front edge flat stair nosing accommodates 51 mm (2") ADA insert strips are perfect for new and existing stairway projects for interior or exterior applications. The nosings come in 3,048 mm (10ft) lengths from the factory and can be cut on-site to step edge length requirements. Our nosings, along with the insert strips, will provide your project with long-lasting and durable slip resistance protection, reducing the risk of slips and falls.



Bull Nose

ADA Solutions clear anodized bull nose flat stair nosing accommodates 51 mm (2") ADA insert strips are perfect for new and existing stairway projects for interior or exterior applications. The nosings come in 3,048 mm (10ft) lengths from the factory and can be cut on-site to step edge length requirements. Our nosings, along with the insert strips, will provide your project with long-lasting and durable slip resistance protection, reducing the risk of slips and falls.



Product Features

- Extruded Aluminum Alloy 6063 - T5
- Clear Anodized (Class 1: 15-19 Microns)
- Standard anodization colour options available: Clear (custom colours, please inquire)
- Available in 3,048 mm (10ft) lengths
- Suitable for installing in conjunction with any of our 51 mm (2") Non-Slip Contrast Step Edge Insert Strips
- Manufacturers five (5) year warranty

Colour Options and Part Number

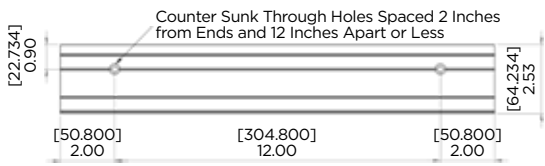
- Flat Stair Nosing Product N°
 - DFSN200 (Clear)
 - DFSN200B (Black) - Custom Order
 - DFSN200R (Red) - Custom Order
 - DFSN200Y (Yellow) - Custom Order

Installation Information

- Install non-slip contrast step edge insert strip following the governing jurisdiction regulations
- Premium polyurethane adhesive is recommended
- Mechanical fasteners are an option when installing in interior applications
- Recommend #10 x 1" Flat Head, 82° Robertson Drive (CDN) or Philips Drive (US) fasteners for either Concrete, Wood or Sheet Metal with appropriate polymer/metal plugs/anchors
- Immediately following installation, close off the area for 8 hours to avoid the damage or moving while the adhesive is in the early stages of cure
- For full installation instructions, please request submittal package

90° Front Edge

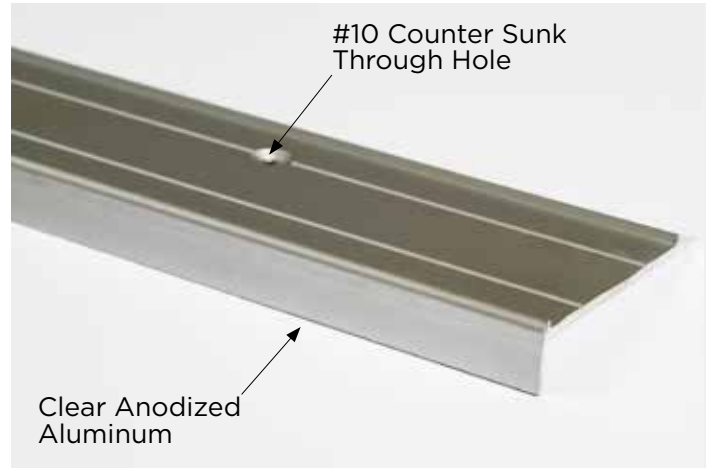
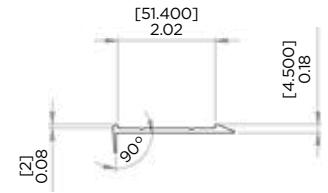
Top View



Front View

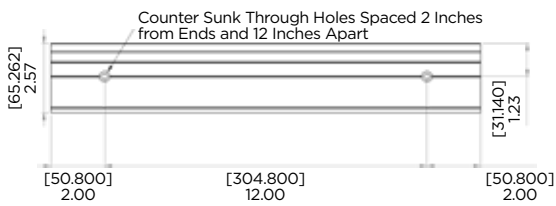


Elevation



Bull Nose

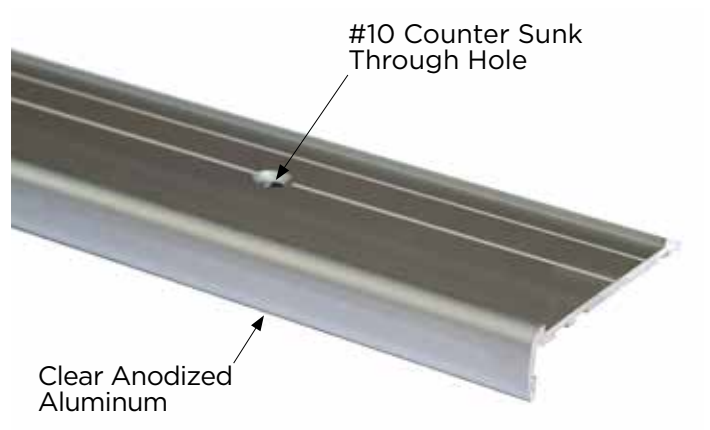
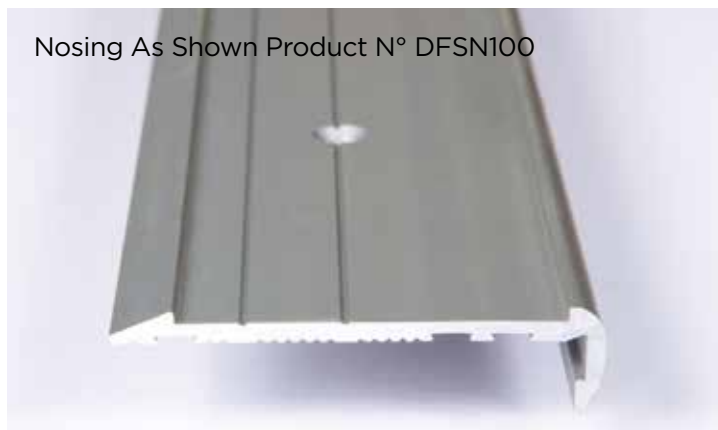
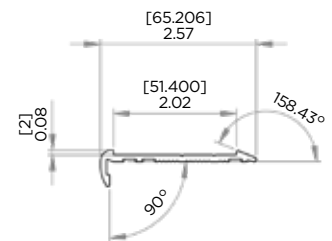
Top View



Front View



Elevation



TILE NOSING

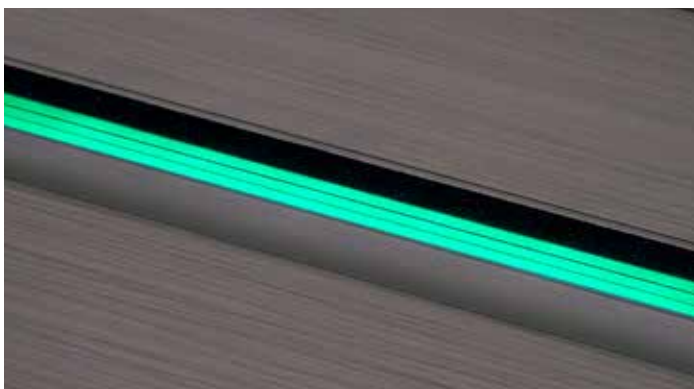
ADA Solutions clear anodized tile nosing accommodates 51 mm (2") ADA insert strips are perfect for new and existing stairway projects for the interior or exterior applications. The nosings come in 3,048 mm (10ft) lengths from the factory and can be cut on-site to step edge length requirements. Our nosings, along with the insert strips, will provide your project with long-lasting and durable slip resistance protection, reducing the risk of slips and falls.

Product Features

- Extruded Aluminum Alloy 6063 - T5
- Clear Anodized (Class 1: 15-19 Microns)
- Standard anodization colour options available: Clear (custom colours, please inquire)
- Available in 3,048 mm (10ft) lengths
- Suitable for installing in conjunction with any of our 51 mm (2") Non-Slip Contrast Step Edge Insert Strips
- Manufacturer's five (5) year warranty

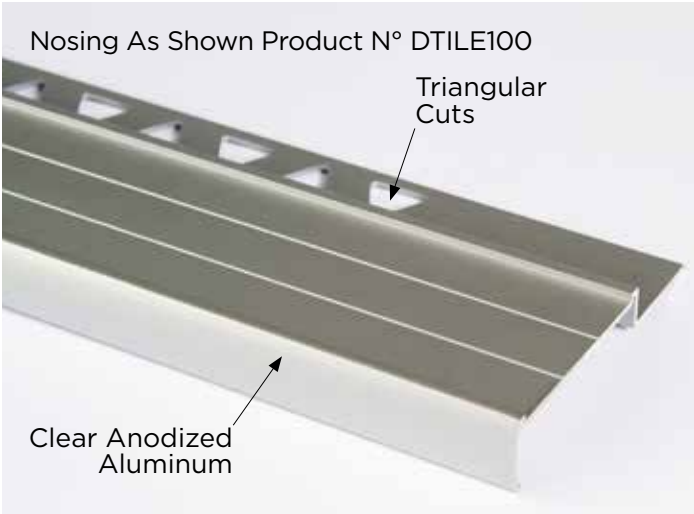
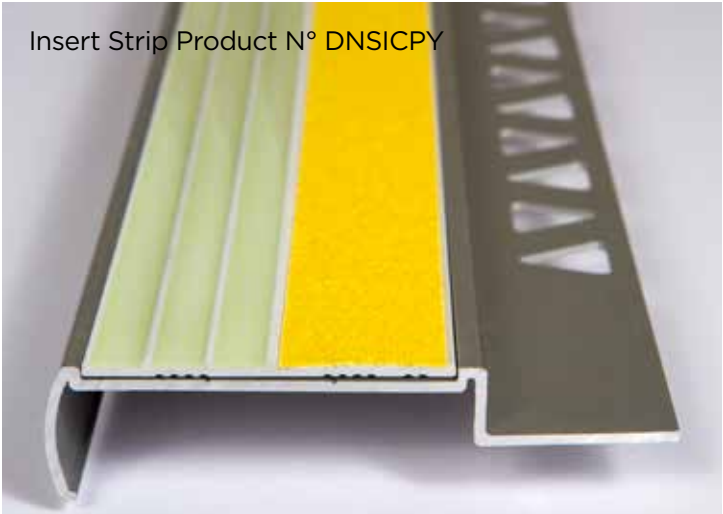
Colour Options and Part Number

- Tile Nosing Product N°
 - DTILE100 (Clear)
 - DTILE100B (Black) - Custom Order
 - DTILE100R (Red) - Custom Order
 - DTILE100Y (Yellow) - Custom Order

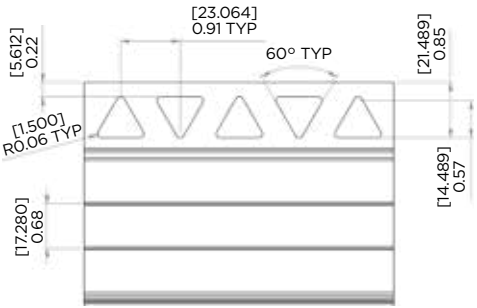


Installation Information

- Install the nosing's non-slip contrast step edge insert strip following the governing jurisdiction regulations
- Premium polyurethane adhesive is recommended
- Place the tile nosing at the edge of the step, and use the thin-set mortar to adhere into place
- Apply thin-set mortar to Tile Nose edge and lay the tile against the tile nose
- Ensure that the Tile Nosing is covered with protective painters tape before placing it into the thin-set
- Grout is available in a variety of textures and colours. Pick a colour that matches the colour of the tile or as per project specification
- Use a rubber trowel or float to spread the grout across the tiles at an angle to be sure to get it between each tile
- After the painter's tape is removed, thoroughly clean the surface of the nosing with an appropriate cleaner
- Allow the surface to dry thoroughly
- Cut the non-slip contrast step edge insert strip with a straight snip or cutting shears to the same length of the aluminum nosing profiles
- Apply a 3.2 mm (1/8 inch) bead of polyurethane adhesive in a wave pattern over the full length of the aluminum profile nosing and apply insert strip
- Premium polyurethane adhesive is recommended for applying the insert strip
- If excess adhesive comes out aluminum profile nose edge(s), take care not to step on the excess adhesive while it cures
- When the adhesive has cured, trim the excess from each strip with a sharp utility knife
- Close off the area for 8 hours to avoid damage or moving while the adhesive is in the early stages of curing
- For full installation instructions, please request submittal package



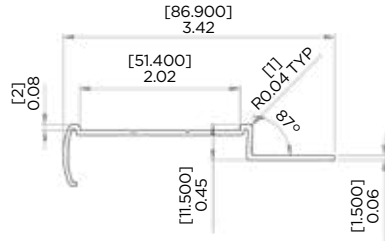
Top View



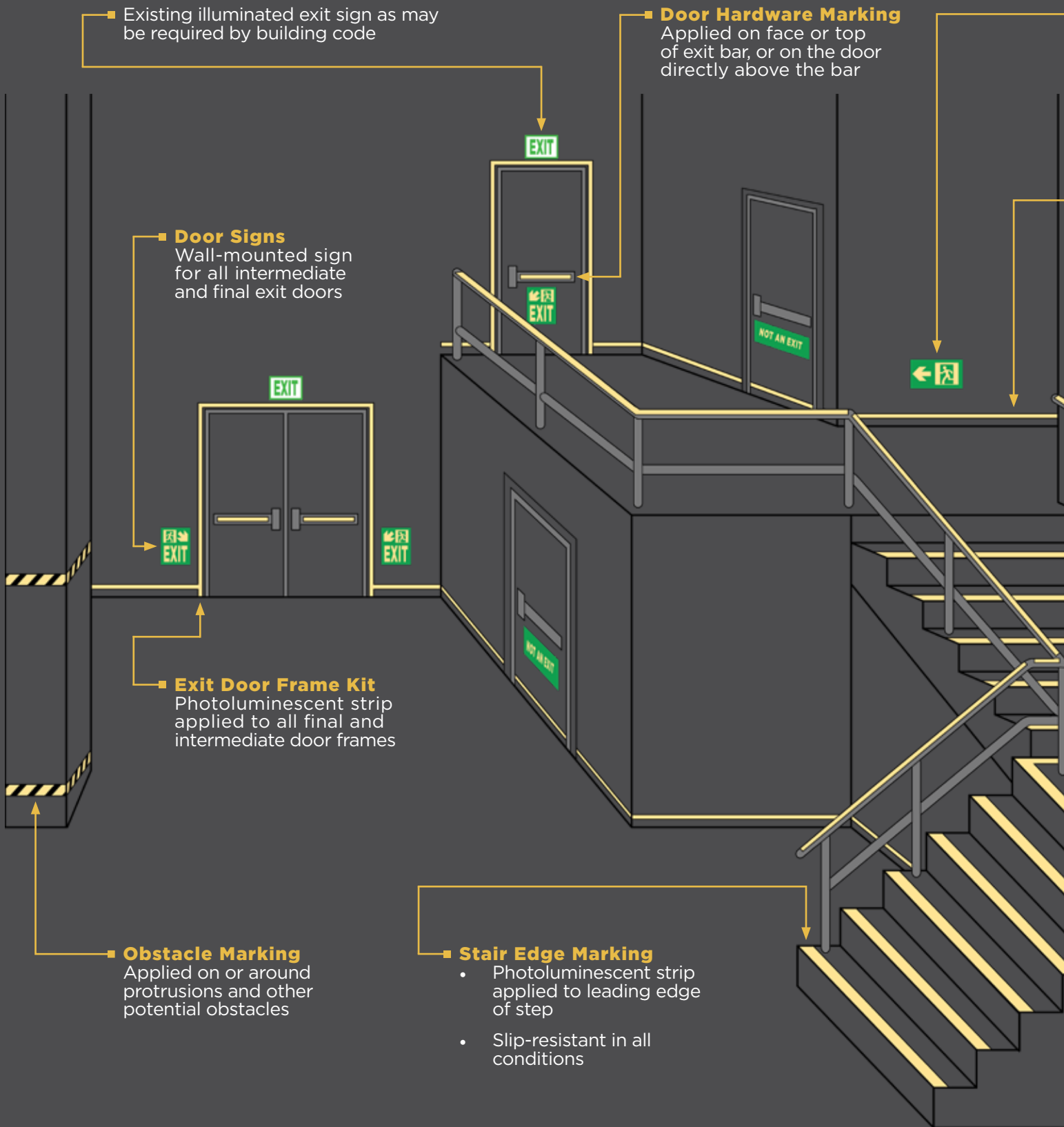
Front View



Elevation



FUNCTIONAL LAYOUT



All systems designed to meet NYC Building Code Standard RS 6-1/1A, Stairway Exit Path Marking Requirements. Marking shall be installed in consistent and uniform manner in dimensions, distances and location, throughout the same exit.

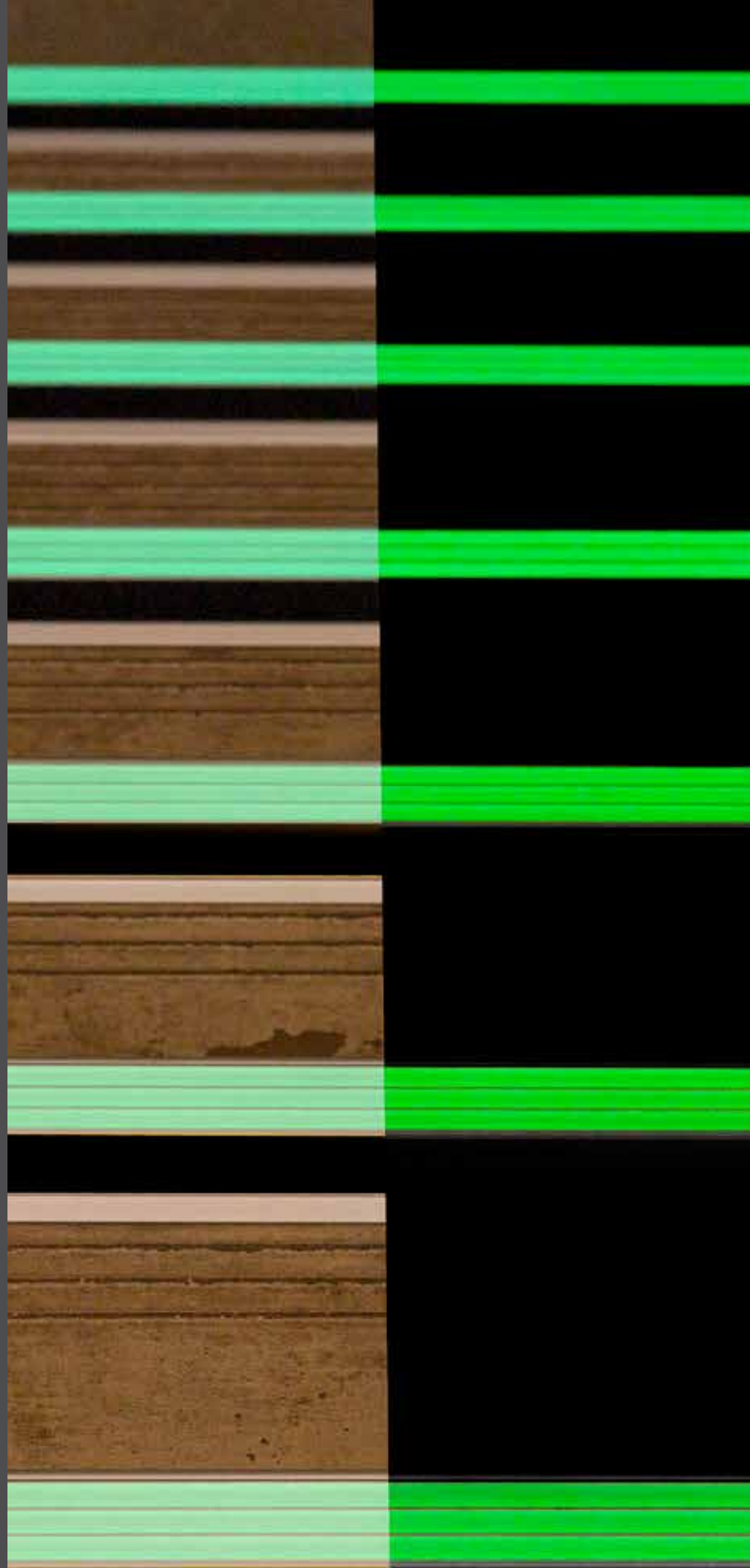
■ **Directional Signage**
Wall-mounted sign

■ **Floor Demarcation Line**
Photoluminescent strip applied to lower wall

■ **Hand Rail Marking**
Photoluminescent strip applied to handrails

■ **Landing Edge Marking**

- Photoluminescent strip applied on leading edge of landing
- Slip-resistant in all conditions



Stair Edge Marking
Photographed in low and no light

CODE REQUIREMENTS

SECTION 1025

1025.1 General

Approved luminous egress path markings delineating the exit path shall be provided in high-rise buildings of Group A, B, E, I-1, M, and R-1 occupancies in accordance with this section.

Exception: Luminous egress path markings shall not be required on the level of exit discharge in lobbies that serve as part of the exit path in accordance with Section 1028.1, Exception 1.

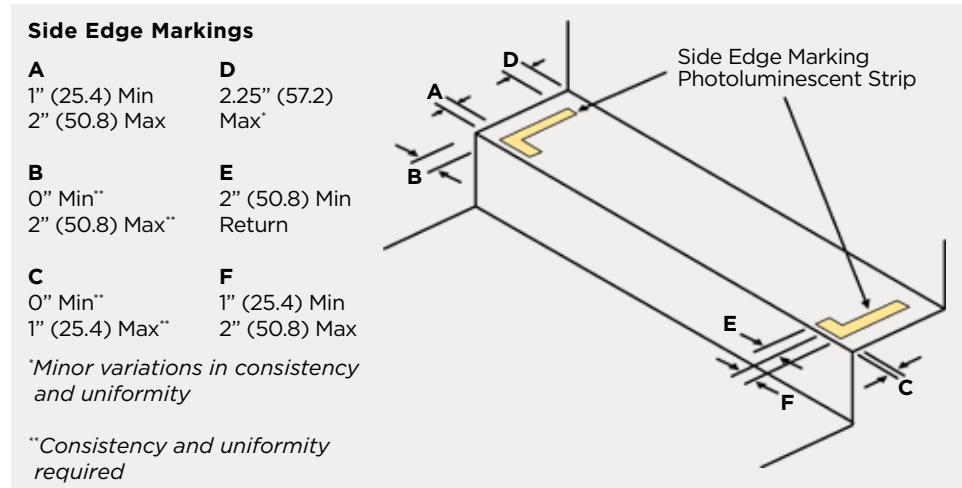
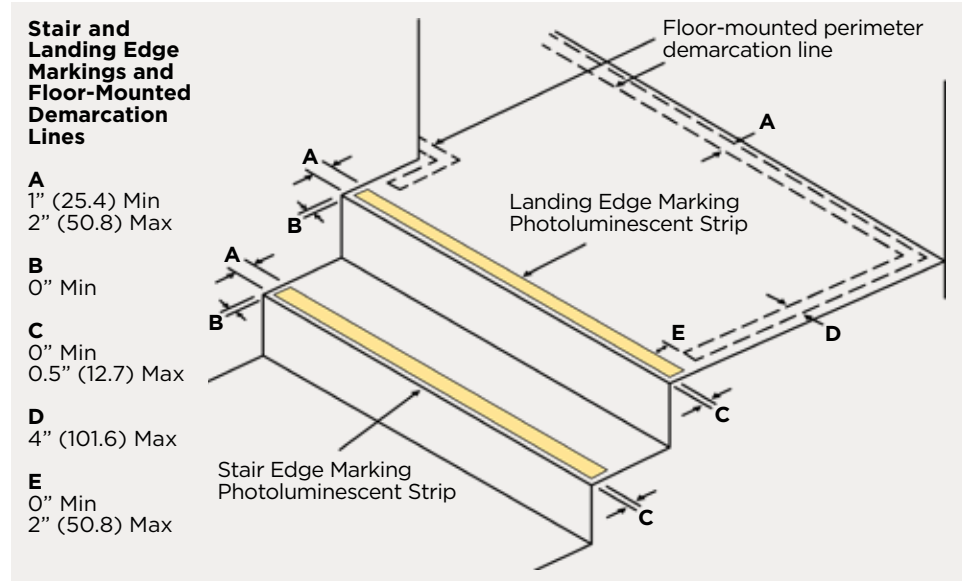
Applicable Occupancy Groups:

- **A** - Assembly
- **B** - Business
- **E** - Educational
- **R1** - Transient Residential
- **I** - Institution
- **M** - Mercantile

1025.2 Markings Within Exit Components

Egress path markings shall be provided in interior exit stairways, interior exit ramps and exit passageways, in accordance with Sections 1025.2.1 through 1025.2.6.

1025.2.1 Steps



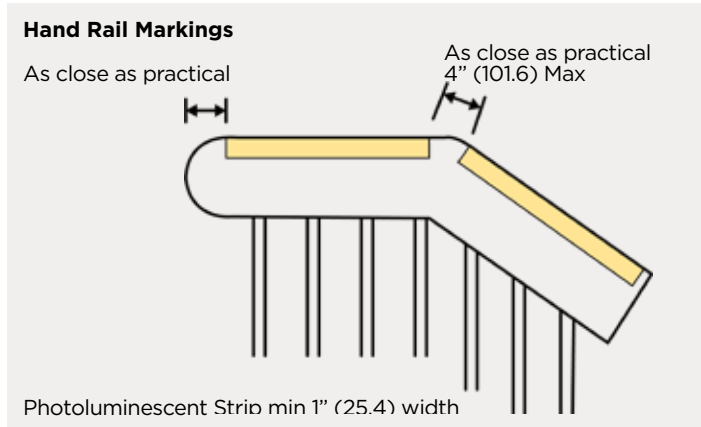
A solid and continuous stripe shall be applied to the horizontal leading edge of each step and shall extend for the full length of the step. Outlining stripes shall have a minimum horizontal width of 25 mm (1 inch) and a maximum width of 51 mm (2 inches). The leading edge of the stripe shall be placed not more than 12.7 mm (1/2 inch) from the leading edge of the step and the stripe shall not overlap the leading edge of the step by not more than 12.7 mm (1/2 inch) down the vertical face of the step.

Exception: The minimum width of 25 mm (1 inch) shall not apply to outlining stripes listed in accordance with UL 1994.

1025.2.2 Landings

The leading edge of landings shall be marked with a stripe consistent with the dimensional requirements for steps.

1025.2.3 Handrails



Handrails and handrail extensions shall be marked with a solid and continuous stripe having a minimum width of 25 mm (1 inch). The stripe shall be placed on the top surface of the handrail for the entire length of the handrail, including extensions and newel post caps. Where handrails or handrail extensions bend or turn corners, the stripe shall not have a gap of more than 102 mm (4 inches).

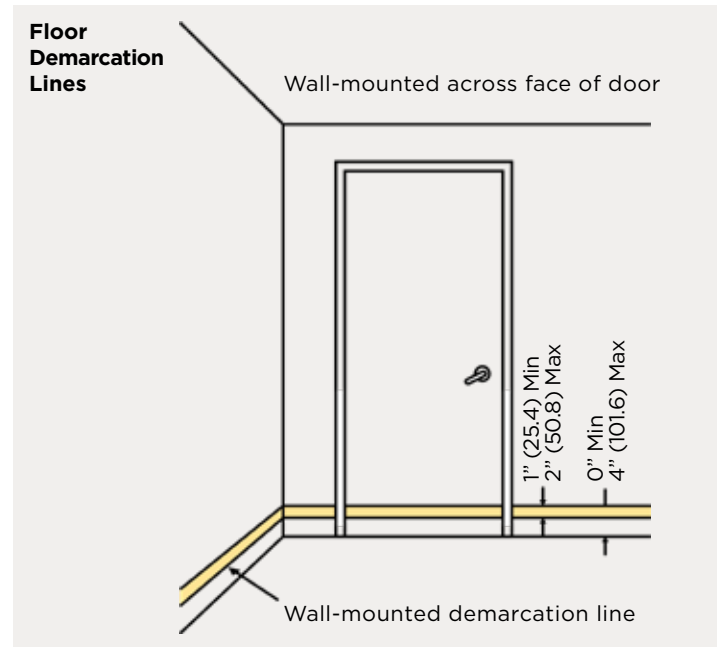
Exception: The minimum width of 25 mm (1 inch) shall not apply to outlining stripes listed in accordance with UL 1994.

1025.2.4 Perimeter Demarcation Lines

Stair landings and other floor areas within interior exit stairways, interior exit ramps and exit passageways, with the exception of the sides of steps, shall be provided with solid and continuous demarcation lines on the floor or on the walls or a combination of both. The stripes shall be 25 mm to 51 mm (1 to 2 inches) wide with interruptions not exceeding 102 mm (4 inches).

Exception: The minimum width of 25 mm (1 inch) shall not apply to outlining stripes listed in accordance with UL 1994.

1025.2.4.1 Floor-mounted Demarcation Lines



Perimeter demarcation lines shall be placed within 102 mm (4 inches) of the wall and shall extend to within 51 mm (2 inches) of the markings on the leading edge of landings. The demarcation lines shall continue across the floor in front of all doors.

Exception: Demarcation lines shall not extend in front of exit discharge doors that lead out of an exit and through which occupants must travel to complete the exit path.

1025.2.4.2 Wall-mounted Demarcation Lines

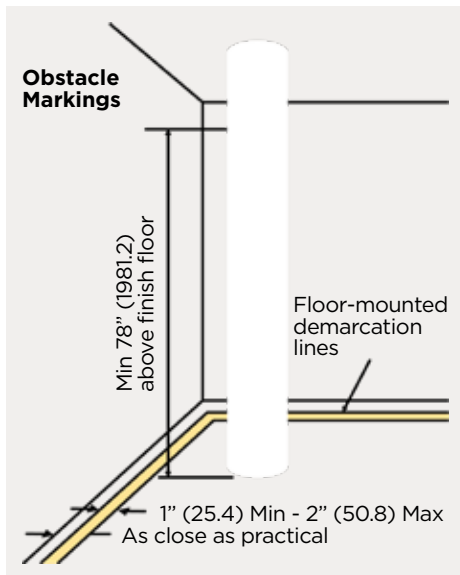
Perimeter demarcation lines shall be placed on the wall with the bottom edge of the stripe not more than 102 mm (4 inches) above the finished floor. At the top or bottom of the stairs, demarcation lines shall drop vertically to the floor within 51 mm (2 inches) of the step or landing edge. Demarcation lines on walls shall transition vertically to the floor and then extend across the floor where a line on the floor is the only practical method of outlining the path. Where the wall line is broken by a door, demarcation lines on walls shall continue across the face of the door or transition to the floor and extend across the floor in front of such door.

Exception: Demarcation lines shall not extend in front of exit discharge doors that lead out of an exit and through which occupants must travel to complete the exit path.

1025.2.4.3 Transition

Where a wall-mounted demarcation line transitions to a floor-mounted demarcation line, or vice-versa, the wall-mounted demarcation line shall drop vertically to the floor to meet a complementary extension of the floor-mounted demarcation line, thus forming a continuous marking.

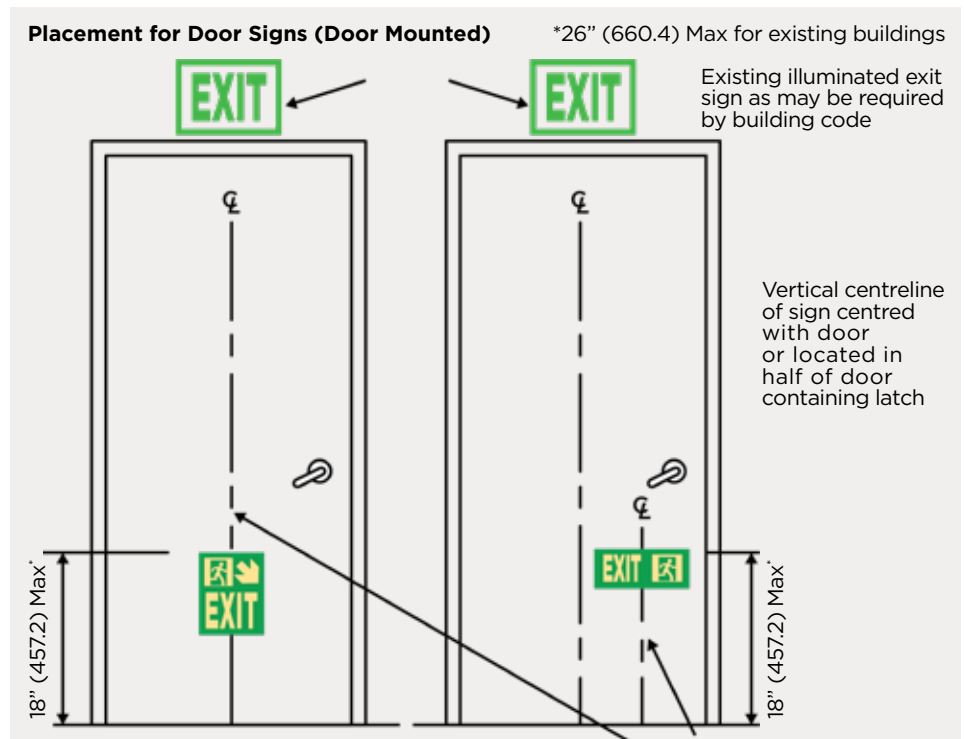
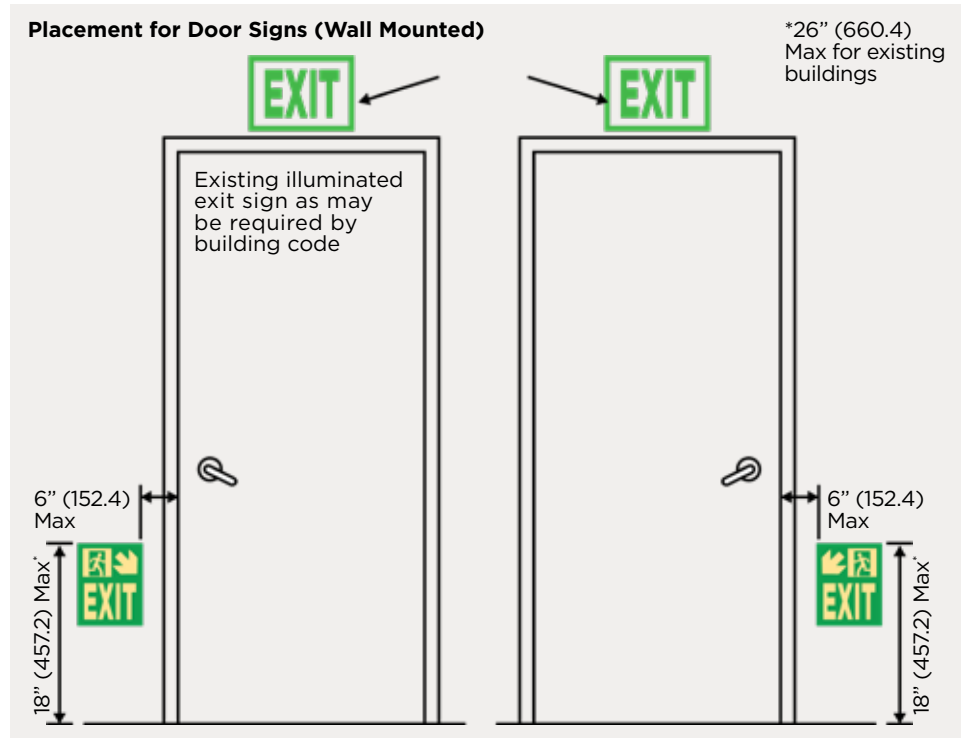
1025.2.5 Obstacles



Obstacles at or below 1981 mm (6 feet 6 inches) in height and projecting more than 102 mm (4 inches) into the egress path shall be outlined with markings not less than 25 mm (1 inch) in width comprised of a pattern of alternating equal bands, of luminous material and black, with the alternating bands not more than 51 mm (2 inches) thick and angled at 0.79 rad (45 degrees). Obstacles shall include but are not limited to, standpipes, hose cabinets, wall projections, and restricted height areas. However, such markings shall not conceal any required information or indicators including but not limited to instructions to occupants for the use of standpipes.

1025.2.6 Doors Within the Exit Path

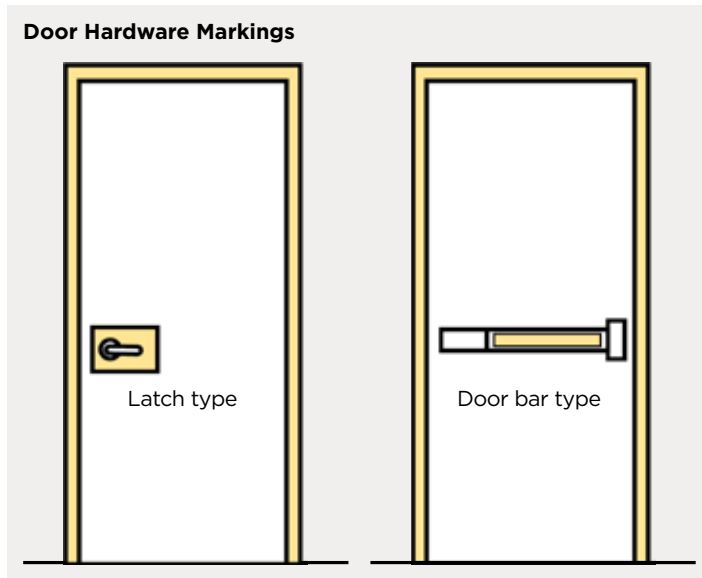
Doors through which occupants must pass in order to complete the exit path shall be provided with markings complying with Sections 1025.2.6.1 through 1025.2.6.3.



1025.2.6.1 Emergency Exit Symbol

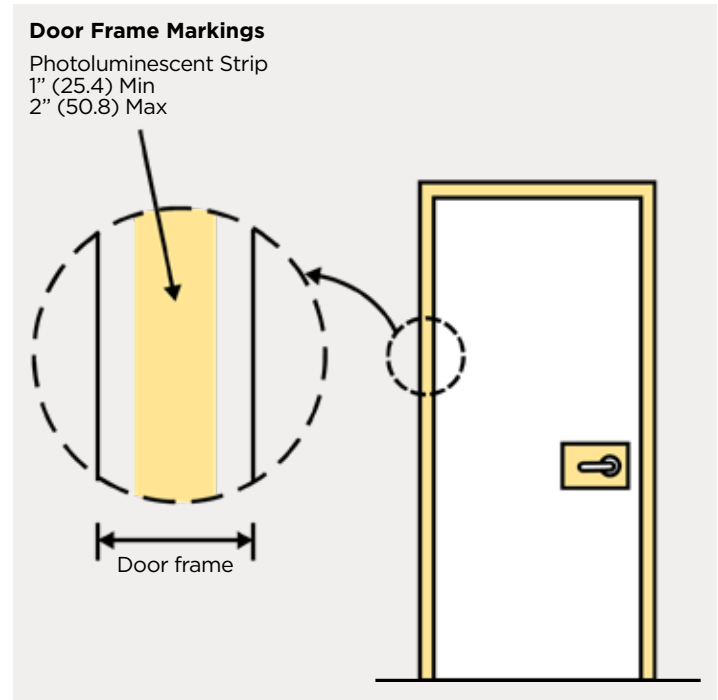
The doors shall be identified by a low-location luminous emergency exit symbol complying with NFPA 170. The exit symbol shall be not less than 4 inches (102 mm) in height and shall be mounted on the door, centred horizontally, with the top of the symbol not higher than 457 mm (18 inches) above the finished floor.

1025.2.6.2 Door Hardware Markings



Door hardware shall be marked with not less than 406 mm² (16 square inches) of luminous material. This marking shall be located behind, immediately adjacent to, or on the door handle or escutcheon. Where a panic bar is installed, such material shall be not less than 25 mm (1 inch) wide for the entire length of the actuating bar or touchpad.

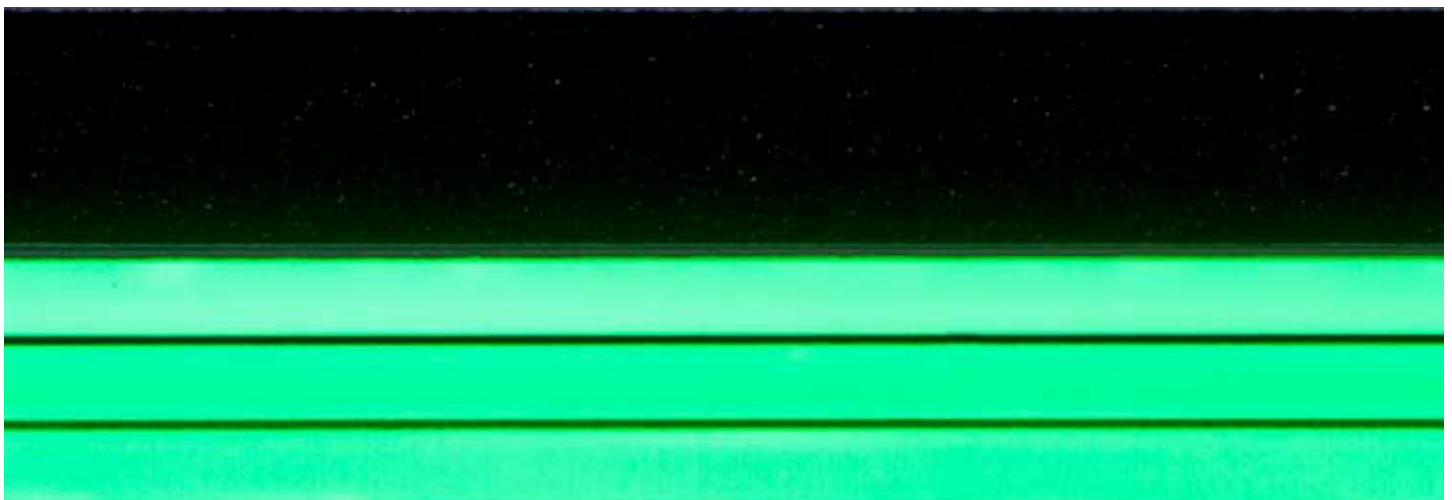
1025.2.6.3 Door Frame Markings



The top and sides of the door frame shall be marked with a solid and continuous 25 mm to 51 mm wide (1 inch to 2 inches) stripe. Where the door moulding does not provide sufficient flat surface on which to locate the stripe, the stripe shall be permitted to be located on the wall surrounding the frame.

1025.3 Uniformity

Placement and dimensions of markings shall be consistent and uniform throughout the same enclosure.



1025.4 Self-luminous and Photoluminescent

Luminous egress path markings shall be permitted to be made of any material, including paint, provided that an electrical charge is not required to maintain the required luminance. Such materials shall include, but not be limited to, self-luminous materials and photoluminescent materials. Materials shall comply with either of the following standards:

1. UL 1994.
2. ASTM E 2072, except that the charging source shall be 11 lux (1 footcandle) of fluorescent illumination for 60 minutes, and the minimum luminance shall be 30 millicandelas per square meter at 10 minutes and 5 millicandelas per square meter after 90 minutes.

SECTION 1023 - INTERIOR EXIT STAIRWAYS AND RAMPS

1023.9 Stairway Identification Signs

A sign shall be provided at each floor landing in an interior exit stairway and ramp connecting more than three stories designating the floor level, the terminus of the top and bottom of the interior exit stairway and ramp and the identification of the stairway or ramp. The signage shall state the story of and direction to the exit discharge, and the availability of roof access from the interior exit stairway and ramp for the fire department. The sign shall be located 1524 mm (5 feet) above the floor landing in a position that is readily visible when the doors are in the open and closed positions. In addition to the stairway identification sign, a floor-level sign in visual characters, raised characters and braille complying with ICC A117.1 shall be located at each floor-level landing adjacent to the door leading from the interior exit stairway and ramp into the corridor to identify the floor level.

Signage



Intermediate Exit Door Sign *Wall-Mounted / Exit Left Arrow*



Final Exit Door Sign *Exit Through Lobby*



Directional Sign *Progress to the Right*



Door Sign *Not an Exit*

Stairway identification signs shall comply with all of the following requirements:

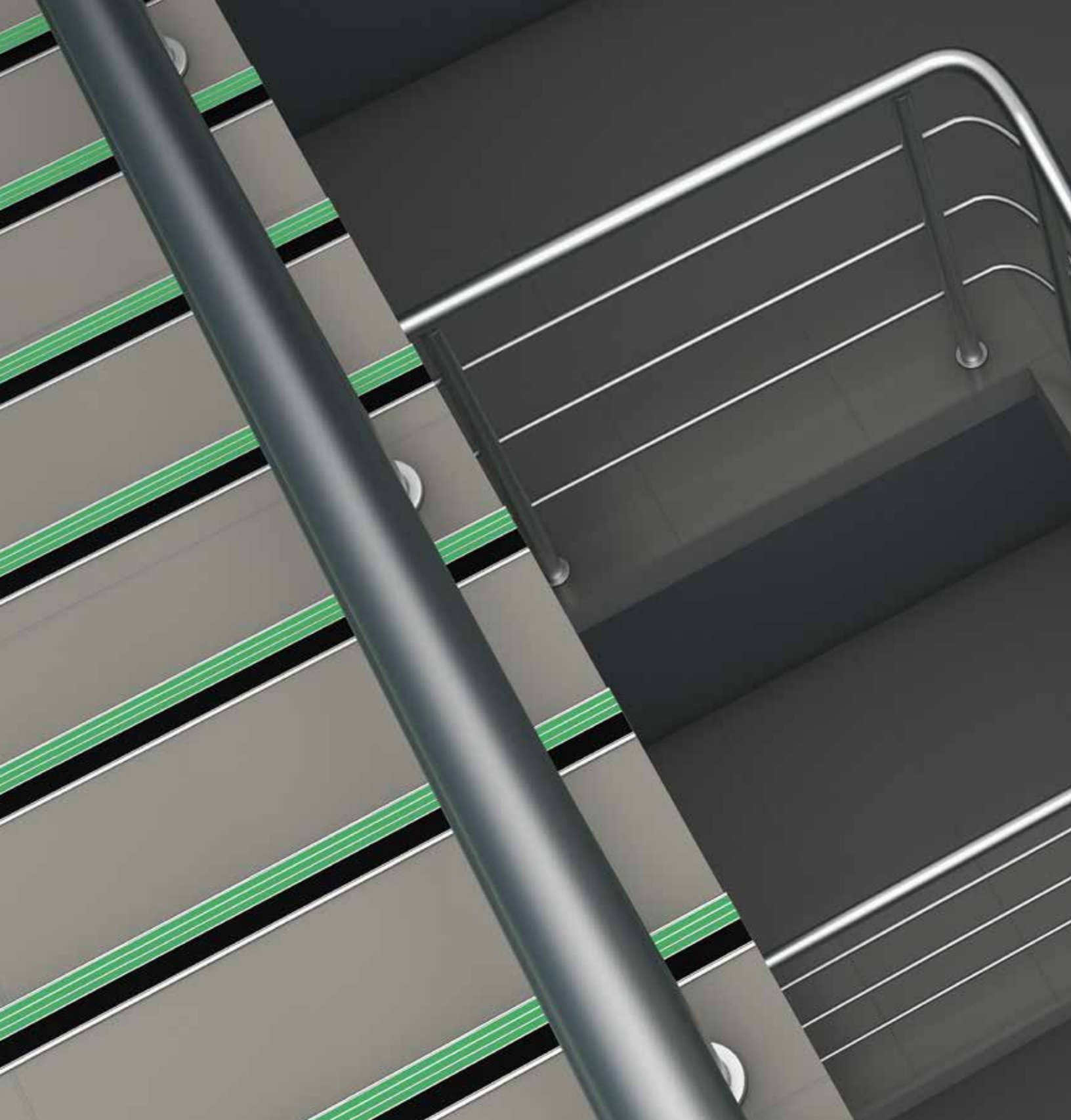
1. The signs shall be a minimum size of 457 mm (18 inches) by 305 mm (12 inches).
2. The letters designating the identification of the interior exit stairway and ramp shall be not less than 38 mm (1^{1/2} inches) in height.
3. The number designating the floor level shall be not less than 127 mm (5 inches) in height and located in the center of the sign.
4. Other lettering and numbers shall be not less than 25 mm (1 inch) in height.
5. Characters and their background shall have a nonglare finish. Characters shall contrast with their background, with either light characters on a dark background or dark characters on a light background.
6. Where signs required by Section 1023.9 are installed in the interior exit stairways and ramps of buildings subject to Section 1025, the signs shall be made of the same materials as required by Section 1025.4.

The Accessibility for Ontarians with Disabilities Act, 2005 (AODA) became law on June 13, 2005. The purpose of the AODA is to benefit all Ontarians by developing, implementing and enforcing accessibility standards. The goal is to achieve accessibility for Ontarians with disabilities with respect to goods, services, facilities, accommodation, employment, buildings, structures and premises by **January 1, 2025**. On December 27, 2013, Ontario Regulation 368/13 was filed to amend the new 2012 Building Code, O.Reg. 332/12. **The effective date of the amendment is January 1, 2015.**

AODA Standards For Stairs Treads and Risers

A flight of stairs shall have a horizontal stripe at the edge of the tread that:

1. Is 50 ± 10 mm deep
2. Is colour-contrasted with the tread and riser
3. Extends the full width of the tread
4. Is slip-resistant



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