

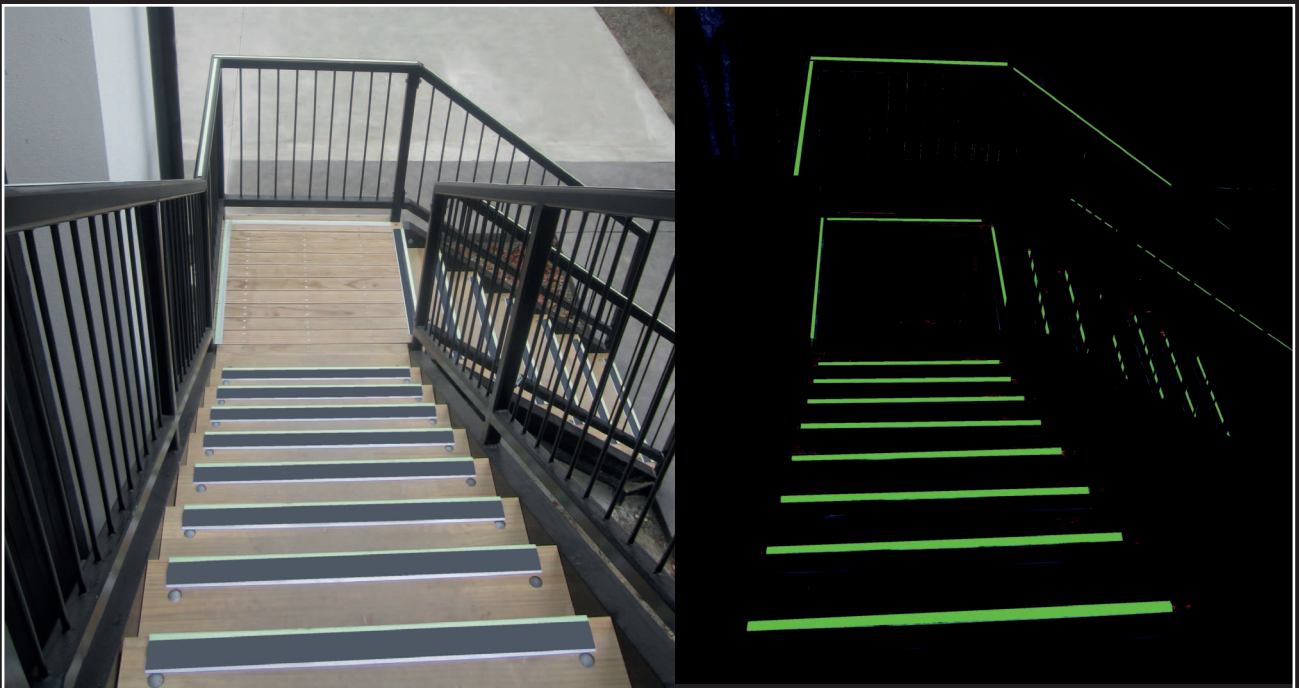
2018

INTERNATIONAL
Catalogue

ecoglo®
VISIBLY BETTER

NFPA 101 Life Safety Code Solutions

For IFC Solutions Catalogue, Performance Solutions and UL924 signs visit www.ecoglo.com



Contents	Page
Completed Ecoglo Projects.....	2
About Ecoglo.....	3
NFPA 101 Life Safety Code Compliance Guide.....	4
Product Data Sheets.....	12
Ecoglo Safety Data Sheets.....	23
Installation Instructions.....	27

Completed Projects Using Ecoglo Products



1. Supreme Court, Singapore
2. Bond Street Underground Station, London
3. Burj Khalifa, Dubai
4. Venetian Macao, Macau
5. Eaton Centre, Toronto
6. Yuen Long MTR Station, Hong Kong
7. MCG, Melbourne

ecoglo®
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Email: info@ecoglo.com

www.ecoglo.com

Established in 1997, Ecoglo designs and manufactures photo-luminescent exit signs and emergency lighting products to meet building codes worldwide, including IFC Solutions and NFPA 101 Life Safety Code Solutions.

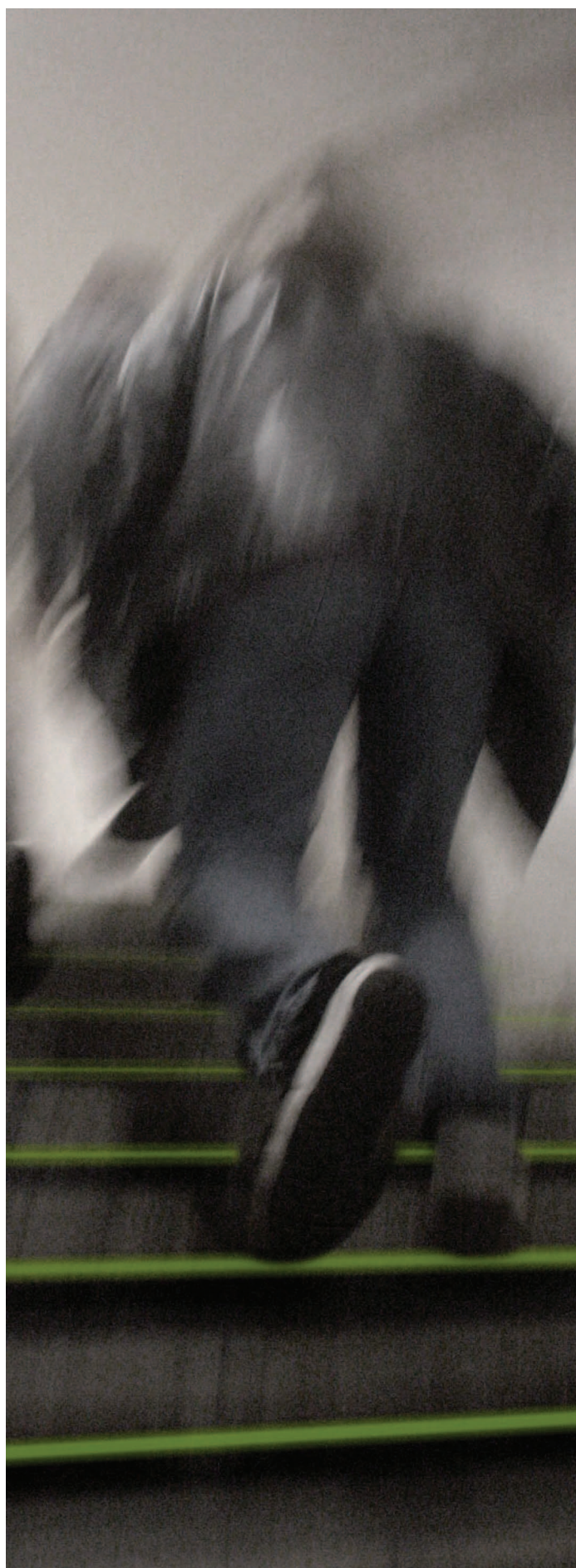
By harvesting sunlight or recycling the existing light in a building, Ecoglo products provide sustainable and cost effective building solutions. The solutions are fail-safe, operate immediately and do not require ongoing maintenance.

Research and development has focused on refining Ecoglo's patented manufacturing process to create products that have superior durability, rapid charging and predictable visibility.

There are many ways to become more environmentally friendly and one of these is to endeavour, wherever possible, to use new technology products that are more sustainable. As well as reducing electricity usage, Ecoglo products incorporate recycled aluminium, are non-toxic and non-radioactive. Being very durable they will last the life of the facility and can then be readily recycled.

Ecoglo products can be seen in many international facilities as building codes around the world recognise the contribution that such products make, not only to effective and economical emergency lighting systems, but also to the environment.

Countries that have already adopted this technology into their respective building codes include the USA, Canada, Australia, Japan and New Zealand.



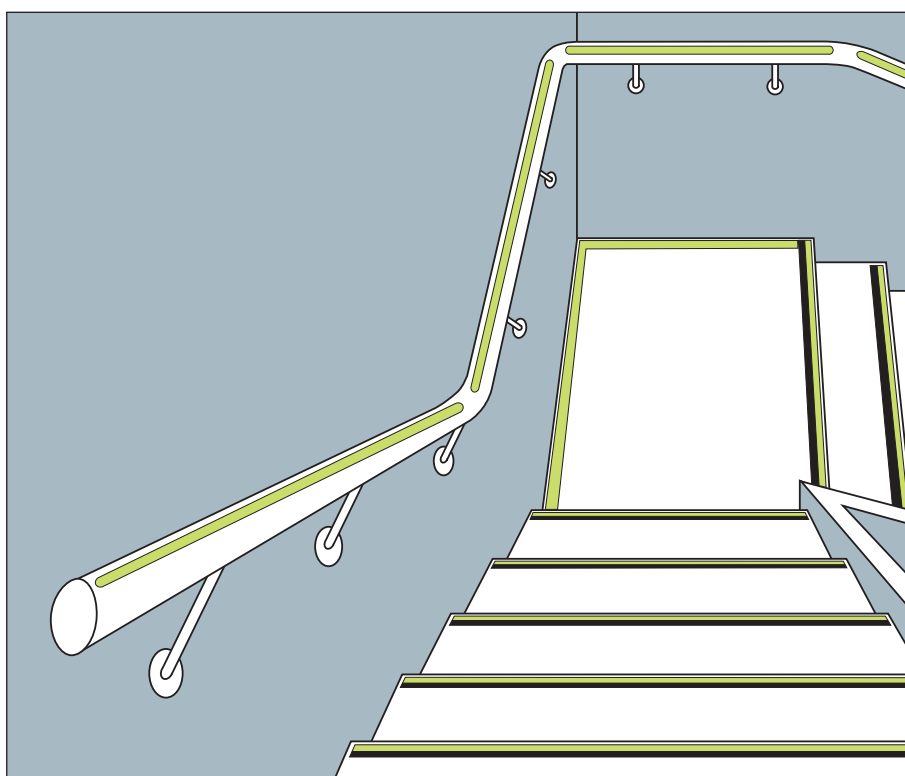
ECOGLO INTERNATIONAL LIMITED

Compliance Guide

for Ecoglo Photoluminescent Markings to meet the requirements of

2015 NFPA 101 LIFE SAFETY CODE 7.2.2.5.5 EXIT STAIR PATH MARKINGS

N.B. For Performance Solutions to meet primary lighting and exit signage requirements, please consult Ecoglo.



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Introduction

This document is aimed at those wishing to design an NFPA 101 compliant photoluminescent path marking system and outlines:

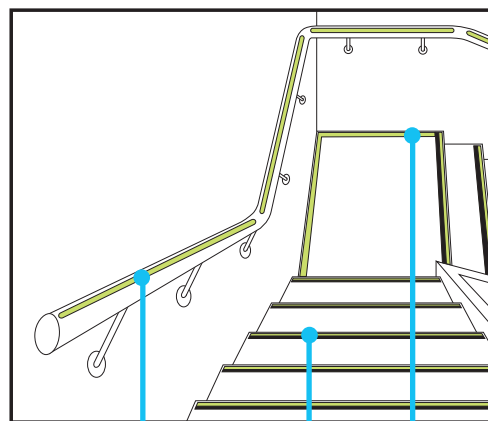
- Where Ecoglo exit stair path marking systems are required;
- Which Ecoglo markings should be used and where they should be installed;
- What ongoing inspections should be carried out.

Ecoglo photoluminescent products are aluminium based and manufactured to a very high standard. To ensure suitable durability Ecoglo's proprietary manufacturing process involves integrally bonding the active ingredients into aluminium following heat curing.

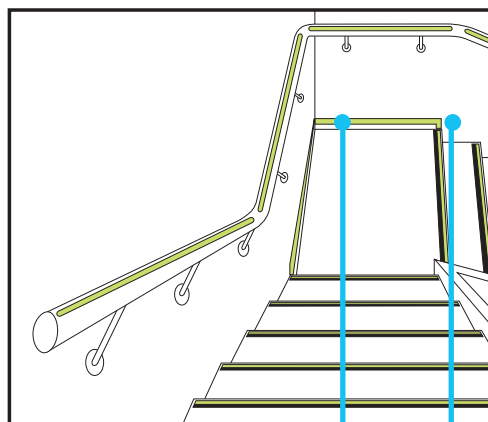
Ecoglo's product range includes step edge contrast, guidance strips, handrail markers and door markers, as well as exit signage. Please note that for Ecoglo markings to be appropriate there needs to be sufficient charging light on the markings as specified in 7.2.2.5.5.11 (see p5).

7.2.2.5.5 Exit Stair Path Markings

Where exit stair path markings are required in Chapters 11 through 43, this guide details how Ecoglo photoluminescent markings shall be installed in accordance with 7.2.2.5.5.1 through 7.2.2.5.5.11.



HANDRAIL MARKING
STEP MARKINGS
FLOOR MOUNTED PERIMETER DEMARCATION LINE



WALL MOUNTED PERIMETER
DEMARICATION LINE
DROPS TO LEADING
EDGE OF LANDING

7.2.2.5.5.1 Exit Stair Treads

Exit stair treads shall incorporate a marking stripe that is integral with the nosing of each step. The marking stripe shall be installed along the horizontal leading edge of the step and shall extend the full width of the step. The marking stripe shall also meet all of the following requirements:

- (1) The marking stripe shall be not more than ½ in. (13 mm) from the leading edge of each step and shall not overlap the leading edge of the step by more than ½ in. (13 mm) down the vertical face of the step.
- (2) The marking stripe shall have a minimum horizontal width of 1 in. (25 mm) and a maximum width of 2 in. (51 mm).
- (3) The dimensions and placement of the marking stripe shall be uniform and consistent on each step throughout the exit enclosure.
- (4) Surface-applied marking stripes using adhesive-backed tapes shall not be used.

7.2.2.5.5.1 Exit Stair Treads

Recommended Ecoglo Products

E4-073 Step Edge Contrast
F2-003 Step Nosing
G6-003 Guidance Strip

7.2.2.5.5.2 Exit Stair Landings

The leading edge of exit stair landings shall be marked with a solid and continuous marking stripe consistent with the dimensional requirements for stair treads and shall be the same lengths, and consistent with, the stripes on the steps.

7.2.2.5.5.2 Exit Stair Landings

Recommended Ecoglo products

E4-073 Step Edge Contrast

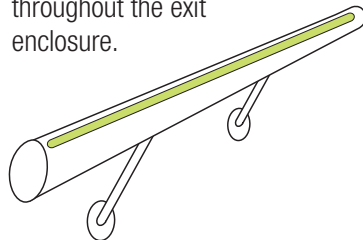
F2-003 Step Nosing

G6-003 Guidance Strip

7.2.2.5.5.3 Exit Stair Handrails

All handrails and handrail extensions shall be marked with a solid and continuous marking stripe and meet all of the following requirements:

- (1) The marking stripe shall be applied to the upper surface of the handrail for the entire length of the handrail, including extensions.
- (2) Where handrails or handrail extensions bend or turn corners, the marking stripe shall be permitted to have a gap of not more than 4 in. (100 mm).
- (3) The marking stripe shall have a minimum horizontal width of 1 in. (25 mm), which shall not apply to outlining stripes listed in accordance with ANSI/UL 1994, *Standard for Luminous Egress Path Marking Systems*.
- (4) The dimensions and placement of the marking stripe shall be uniform and consistent on each handrail throughout the exit enclosure.



7.2.2.5.5.3 Exit Stair Handrails

Recommended Ecoglo Products

H3-001 Handrail Marker

H5-001 Handrail Marker

G3-001 Guidance Strip

G6-003 Guidance Strip

7.2.2.5.5.4 Perimeter Demarcation Marking

Stair landings, exit passageways, and other parts of the floor areas within the exit enclosure shall be provided with a solid and continuous perimeter demarcation marking stripe on the floor or on the walls or a combination of both. The marking stripe shall also meet all of the following requirements:

- (1) The marking stripe shall have a minimum horizontal width of 1 in. (25 mm) and a maximum width of 2 in. (51 mm), with interruptions not exceeding 4 in. (100 mm).
- (2) The minimum marking stripe width of 1 in. (25mm) shall not apply to outlining stripes listed in accordance with ANSI/UL 1994, *Standard for Luminous Egress Path Marking Systems*.
- (3) The dimensions and placement of the perimeter demarcation marking stripe shall be uniform and consistent throughout the exit enclosure.
- (4) Surface-applied marking stripes using adhesive-backed tapes shall not be used.

Floor Demarcation

Perimeter floor demarcation lines shall comply with all of the following:

- (1) They shall be placed within 4 in. (100 mm) of the wall and extend to within 2 in. (51 mm) of the markings on the leading edge of landings.
- (2) They shall continue across the floor in front of all doors.
- (3) They shall not extend in front of exit doors leading out of an exit enclosure and through which occupants must travel to complete the egress path.

Wall Demarcation

Perimeter wall demarcation lines shall comply with all of the following:

- (1) They shall be placed on the wall with the bottom edge of the stripe not more than 4 in. (100 mm) above the finished floor.
- (2) At the top or bottom of the stairs, they shall drop vertically to the floor within 2 in. (51 mm) of the step or landing edge.
- (3) They 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.
- (4) Where the wall line is broken by a door, they shall continue across the face of the door or transition to the floor and extend across the floor in front of such door.
- (5) They shall not extend in front of doors leading out of an exit enclosure and through which occupants must travel to complete the egress path.
- (6) 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.

7.2.2.5.5.4 Perimeter Demarcation Marking

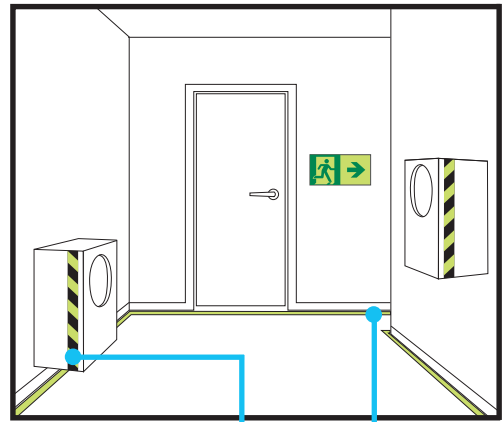
Recommended Ecoglo Products

G3-001 Guidance Strip
G6-003 Guidance Strip

7.2.2.5.5.5 Obstacles

Obstacles that are in the exit enclosure at or below 6 ft. 6 in. (1980 mm) in height, and that project more than 4 in. (100mm) into the egress path, shall be identified with markings not less than 1 in. (25 mm) in horizontal width

comprised of a pattern of alternating equal bands of luminescent material and black; and with the alternating bands not more than 2 in. (51 mm) in horizontal width and angled at 45 degrees.



MARKING OF OBSTACLES

FLOOR OR WALL MOUNTED DEMARCATION LINES

7.2.2.5.5.5 Obstacles

Recommended Products

HZ-TAPE Photoluminescent Hazard Tape

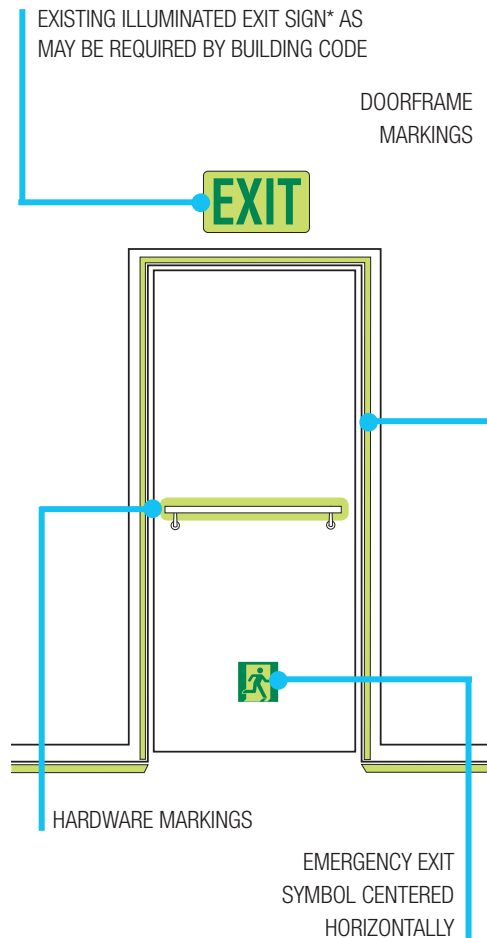
N.B. The above product is not heat cured or aluminium based.

7.2.2.5.5.6 Doors Serving Exit Enclosure

All doors serving the exit enclosure that swing out from the enclosure in the direction of egress travel shall be provided with a marking stripe on the top and sides of the door(s) frame(s). The marking stripe shall also meet all of the following requirements:

- (1) The marking stripe shall have a minimum horizontal width of 1 in. (25mm) and a maximum width of 2 in. (51mm).
- (2) Gaps shall be permitted in the continuity of door frame markings where a line is fitted into a corner or bend, but shall be as small as practicable, and in no case shall gaps be greater than 1 in. (25mm).
- (3) Where the door molding does not provide enough flat surface on which to locate the marking stripe, the marking stripe shall be located on the wall surrounding the frame.

- (4) The dimensions and placement of the marking stripe shall be uniform and consistent on all doors in the exit enclosure.



7.2.2.5.5.6 Doors Serving Exit Enclosure

Recommended Ecoglo Products

G6-003 Guidance Strip

7.2.2.5.5.7 Door Hardware Marking

The door hardware for the doors serving the exit enclosure that swing out from the enclosure in the direction of egress travel shall be provided with a marking stripe.

The marking stripe shall also meet the following requirements:

- (1) The door hardware necessary to release the latch shall be outlined with an approved marking stripe having a minimum width of 1 in. (25 mm).

- (2) Where panic hardware is installed, both of the following criteria shall be met:

- The marking stripe shall have a minimum width of 1 in. (25 mm) and be applied to the entire length of the actuating bar or touch pad.
- The placement of the marking stripe shall not interfere with viewing of any instructions on the actuating bar or touch pad.

7.2.2.5.5.7 Door Hardware Marking

Recommended Ecoglo Products

G6-003 Guidance Strip

DHM1010 Door Handle Marker

7.2.2.5.5.8 Emergency Exit Symbol

An emergency exit symbol with a luminescent background shall be applied on all doors serving the exit enclosure that swing out from the enclosure in the direction of egress travel. The emergency exit symbol shall also meet both of the following requirements:

- The emergency exit symbol shall meet the requirements of NFPA 170, *Standard for Fire Safety and Emergency Symbols*.
- The emergency exit symbol applied on the door shall be a minimum of 4 in. (100 mm) in height and shall be applied on the door, centered horizontally, with the top of the symbol not higher than 18 in. (455 mm) above the finished floor.



7.2.2.5.5.8 Emergency Exit Symbol

Recommended Ecoglo Products

S5-RML1010 Pictogram Left

S5-RMR1010 Pictogram Right

S5-ARS1010 Arrow Straight

S5-ARD1010 Arrow Diagonal

(Signs can be used alone or in combination).

* While EXIT signs are not specified in this section of the code, Ecoglo make exit signs that comply with the performance specifications of UL924 (and therefore NFPA 101 section 7.10.1.2 Exits). Ecoglo can also make exit signs to meet regional/international text or graphics requirements.

7.2.2.5.5.9 Uniformity

Placement and dimensions of the marking stripes shall be consistent and uniform throughout the same exit enclosure.

7.2.2.5.5.10 Materials

Photoluminescent material is suitable for exit stair path markings but it shall also comply with one of the following:

- (1) ASTM E 2072, *Standard Specification for Photoluminescent (Phosphorescent) Safety Markings*, with the following exceptions:
 - (a) The charging source shall be 1 ft-candle (10.8 lux) of fluorescent illumination for 60 minutes.
 - (b) The minimum luminance shall be 5 millicandelas/m² after 90 minutes.
- (2) ANSI/UL 1994 *Standard for Luminous Egress Path Marking Systems*

7.2.2.5.5.10 Materials

Recommended Ecoglo Products

All components UL 1994 listed and/or ASTM E 2072 compliant

7.2.2.5.5.11 Exit Stair Illumination

Exit enclosures where photoluminescent materials are installed shall comply with all of the following:

- (1) The exit enclosure shall be continuously illuminated for at least 60 minutes prior to periods when the building is occupied.
- (2) The illumination shall remain on when the building is occupied.
- (3) Lighting control devices provided for illumination within the exit enclosure shall meet all of the following requirements:
 - (a) Lighting control devices that automatically turn exit enclosure lighting on and off, based on occupancy, shall be permitted, provided that they turn on illumination for charging photoluminescent materials for at least 60 minutes prior to periods when the building is occupied.
 - (b) Lighting used to charge photoluminescent materials shall not be controlled by motion sensors.
 - (c) Lighting control devices that dim the lighting levels within the exit enclosure shall not be installed unless they provide a minimum of 1 ft-candle (10.8 lux) of illumination within the exit enclosure measured at the walking surface.

To ensure suitable durability specify products which are heat cured and aluminium based. All recommended Ecoglo products (which includes Step Edge Contrast, Guidance Strips, Handrail Markers, Door Markers and Exit Signage) are heat cured and aluminium based.

Specification Note

Recommended Ecoglo Products

Heat cured
Aluminium based

Ongoing Inspections

The following inspections are recommended to ensure ongoing compliance with 2015 NFPA 101 Life Safety Code 7.2.2.5.5 Exit Stair Path Markings.

Action	Complete
There has been no change in the configuration of the building which renders the marked escape routes unusable.	
All products are still configured as at installation and there is no material damage to any of these products.	
All products are clean from general dust build up and any other specific obscuring deposits.	
All products are clearly visible and have not been covered up by carpet or other materials.	
All products mark a clear path and have not been obstructed by physical hazards such as trolleys, machinery, partitions, etc.	
All lights checked that the positions have not altered from design.	
All lights are in working order and clean.	
All automated lighting control systems are operational as per design.	

The above checks should be carried out regularly and at least once every 12 months to ensure reliability of the system in the case of fire or other emergency.

Any repairs or replacements required should be carried out immediately. A log of all inspections including results and any corrective measures taken should be recorded and kept on the premises for inspection by the building management and fire department. The log should contain the inspection dates and printed name and signature of the person performing the inspection.

In situations where signs and markings are likely to become dirty, it is recommended that frequent checks and cleaning are done.

Compliance Quick Reference

2015 NFPA 101 Life Safety Code 7.2.2.5.5 Exit Stair Path Markings

7.2.2.5.5.1 Exit Stair Treads

- E4-073 Step Edge Contrast
- F2-003 Step Nosing
- G6-003 Guidance Strip

7.2.2.5.5.2 Exit Stair Landings

- E4-073 Step Edge Contrast
- F2-003 Step Nosing
- G6-003 Guidance Strip

7.2.2.5.5.3 Exit Stair Handrails

- H3-001 Handrail Marker
- H5-001 Handrail Marker
- G3-001 Guidance Strip
- G6-003 Guidance Strip

7.2.2.5.5.4 Perimeter Demarcation Marking

- G3-001 Guidance Strip
- G6-003 Guidance Strip

7.2.2.5.5.5 Obstacles

- HZ-TAPE Photoluminescent Hazard Tape

7.2.2.5.5.6 Doors Serving Exit Enclosure

- G6-003 Guidance Strip

7.2.2.5.5.7 Door Hardware Marking

- G6-003 Guidance Strip
- DHM1010 Door Handle Marker

7.2.2.5.5.8 Emergency Exit Symbol

- S5-RML1010 Pictogram Left
- S5-RMR1010 Pictogram Right
- S5-ARS1010 Arrow Straight
- S5-ARD1010 Arrow Diagonal

7.2.2.5.5.10 Materials

- All components UL 1994 listed and/or ASTM E 2072 compliant



Ecoglo S5 “Directional Pictogram Left Facing” signs are designed to be clearly visible to persons approaching the exit for compliance with NFPA 101 Life Safety Code and International Fire Code (IFC). The signs will be clearly visible and readily understandable under all conditions of foreseeable use, including emergency conditions.

SIGN DEFINITION
Exit straight on from here.

COMPLIANCE
Ecoglo S5 “Directional Pictogram Left Facing” signs meet ASTM E 2072 requirements and are NFPA 101 Life Safety Code and IFC compliant.

PERFORMANCE
A charging source of 1 ft-candle (11 lux) of fluorescent illumination is necessary for 60 minutes to ensure that minimum luminance requirements of 30 mcd/m2 at 10 minutes and 5 mcd/m2 at 90 minutes are met after failure of the main lighting.

- UV Resistance – Loss of luminance after 1000 hrs ASTM G-155 Cycle 1 exposure: <10%
- Salt Spray Resistance – ASTM B117: Pass
- Washability – ASTM D4828: Pass
- Rate of Burning – ASTM D635: Pass
- Surface Flammability – ASTM E162: Pass
- Toxicity – Bombardier Toxic Gas Generation Test SMP800-C: Pass
- Radioactivity – ASTM D3648: Pass

SUPPLY
The product is available in the following size. (The sign can be used alone or in combination with Ecoglo directional arrow signs.)

PRODUCT CODE	PRODUCT NAME	SIGN DEFINITION	SIGN SIZE
S5-RML1010	Directional Pictogram Left Facing	Exit straight on from here	100mm x 100mm

COMPOSITION
The high visibility flat panel is manufactured from 5005 0.9mm aluminium sheet. Custom made photoluminescent pigments are embedded in thermoset polyester carriers to integrally bond the active ingredients onto the aluminium sheet following curing at high temperature.

INSTALLATION
The sign is supplied with pre-fitted release tape for fixing flat on a wall or door.

Contact
Ecoglo International Limited
Email: info@ecoglo.com Web: www.ecoglo.com



Ecoglo S5 “Directional Pictogram Right Facing” signs are designed to be clearly visible to persons approaching the exit for compliance with NFPA 101 Life Safety Code and International Fire Code (IFC). The signs will be clearly visible and readily understandable under all conditions of foreseeable use, including emergency conditions.

SIGN DEFINITION
Exit straight on from here.

COMPLIANCE
Ecoglo S5 “Directional Pictogram Right Facing” signs meet ASTM E 2072 requirements and are NFPA 101 Life Safety Code and IFC compliant.

PERFORMANCE
A charging source of 1 ft-candle (11 lux) of fluorescent illumination is necessary for 60 minutes to ensure that minimum luminance requirements of 30 mcd/m2 at 10 minutes and 5 mcd/m2 at 90 minutes are met after failure of the main lighting.

UV Resistance – Loss of luminance after 1000 hrs ASTM G-155 Cycle 1 exposure: <10%
Salt Spray Resistance – ASTM B117: Pass
Washability – ASTM D4828: Pass
Rate of Burning – ASTM D635: Pass
Surface Flammability – ASTM E162: Pass
Toxicity – Bombardier Toxic Gas Generation Test SMP800-C: Pass
Radioactivity – ASTM D3648: Pass

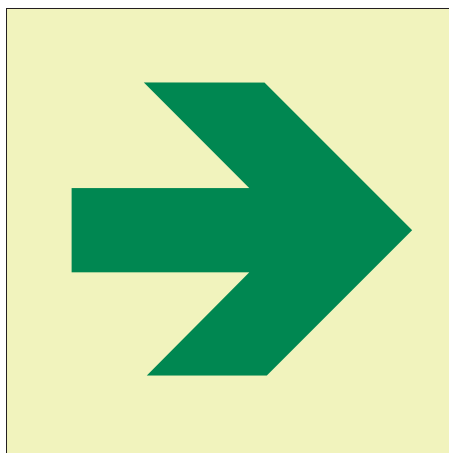
SUPPLY
The product is available in the following size. (The sign can be used alone or in combination with Ecoglo directional arrow signs.)

PRODUCT CODE	PRODUCT NAME	SIGN DEFINITION	SIGN SIZE
S5-RMR1010	Directional Pictogram Right Facing	Exit straight on from here	100mm x 100mm

COMPOSITION
The high visibility flat panel is manufactured from 5005 0.9mm aluminium sheet. Custom made photoluminescent pigments are embedded in thermoset polyester carriers to integrally bond the active ingredients onto the aluminium sheet following curing at high temperature.

INSTALLATION
The sign is supplied with pre-fitted release tape for fixing flat on a wall or door.

Contact
Ecoglo International Limited
Email: info@ecoglo.com Web: www.ecoglo.com



Ecoglo S5 “Directional Arrow Straight” signs are designed to be clearly visible to persons approaching the exit for compliance with NFPA 101 Life Safety Code and International Fire Code (IFC). The signs will be clearly visible and readily understandable under all conditions of foreseeable use, including emergency conditions.

SIGN DEFINITION

Travel in this direction.

COMPLIANCE

Ecoglo S5 “Directional Arrow Straight” signs meet ASTM E 2072 requirements and are NFPA 101 Life Safety Code and IFC compliant.

PERFORMANCE

A charging source of 1 ft-candle (11 lux) of fluorescent illumination is necessary for 60 minutes to ensure that minimum luminance requirements of 30 mcd/m² at 10 minutes and 5 mcd/m² at 90 minutes are met after failure of the main lighting.

UV Resistance – Loss of luminance after 1000 hrs ASTM G-155 Cycle 1 exposure: <10%

Salt Spray Resistance – ASTM B117: Pass

Washability – ASTM D4828: Pass

Rate of Burning – ASTM D635: Pass

Surface Flammability – ASTM E162: Pass

Toxicity – Bombardier Toxic Gas Generation Test SMP800-C: Pass

Radioactivity – ASTM D3648: Pass

SUPPLY

The product is available in the following size. (The sign can be used alone or in combination with Ecoglo directional pictogram signs.)

PRODUCT CODE	PRODUCT NAME	SIGN DEFINITION	SIGN SIZE
S5-ARS1010	Directional Arrow Straight	Travel in this direction	100mm x 100mm

COMPOSITION

The high visibility flat panel is manufactured from 5005 0.9mm aluminium sheet. Custom made photoluminescent pigments are embedded in thermoset polyester carriers to integrally bond the active ingredients onto the aluminium sheet following curing at high temperature.

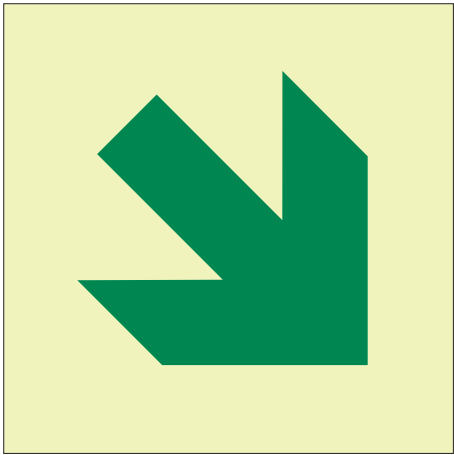
INSTALLATION

The sign is supplied with pre-fitted release tape for fixing flat on a wall or door.

Contact

Ecoglo International Limited

Email: info@ecoglo.com **Web:** www.ecoglo.com



Ecoglo S5 “Directional Arrow Diagonal” signs are designed to be clearly visible to persons approaching the exit for compliance with NFPA 101 Life Safety Code and International Fire Code (IFC). The signs will be clearly visible and readily understandable under all conditions of foreseeable use, including emergency conditions.

SIGN DEFINITION

Travel in this direction.

COMPLIANCE

Ecoglo S5 “Directional Arrow Diagonal” signs meet ASTM E 2072 requirements and are NFPA 101 Life Safety Code and IFC compliant.

PERFORMANCE

A charging source of 1 ft-candle (11 lux) of fluorescent illumination is necessary for 60 minutes to ensure that minimum luminance requirements of 30 mcd/m2 at 10 minutes and 5 mcd/m2 at 90 minutes are met after failure of the main lighting.

UV Resistance – Loss of luminance after 1000 hrs ASTM G-155 Cycle 1 exposure: <10%

Salt Spray Resistance – ASTM B117: Pass

Washability – ASTM D4828: Pass

Rate of Burning – ASTM D635: Pass

Surface Flammability – ASTM E162: Pass

Toxicity – Bombardier Toxic Gas Generation Test SMP800-C: Pass

Radioactivity – ASTM D3648: Pass

SUPPLY

The product is available in the following size. (The sign can be used alone or in combination with Ecoglo directional pictogram signs.)

PRODUCT CODE	PRODUCT NAME	SIGN DEFINITION	SIGN SIZE
S5-ARD1010	Directional Arrow Diagonal	Travel in this direction	100mm x 100mm

COMPOSITION

The high visibility flat panel is manufactured from 5005 0.9mm aluminium sheet. Custom made photoluminescent pigments are embedded in thermoset polyester carriers to integrally bond the active ingredients onto the aluminium sheet following curing at high temperature.

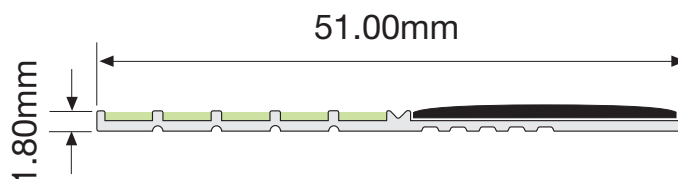
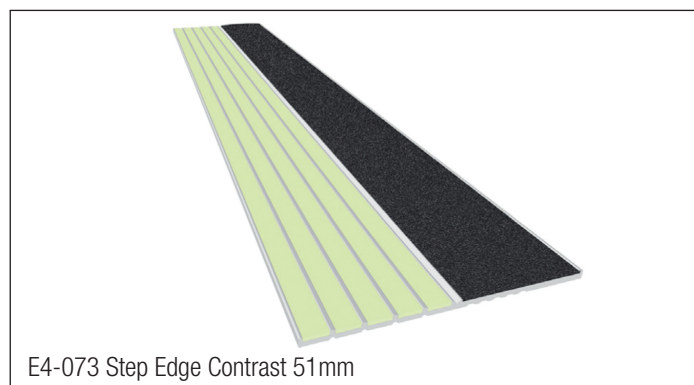
INSTALLATION

The sign is supplied with pre-fitted release tape for fixing flat on a wall or door.

Contact

Ecoglo International Limited

Email: info@ecoglo.com **Web:** www.ecoglo.com



The E4-073 Step Edge Contrast is designed to ensure visibility of steps in escape routes for compliance with NFPA 101 Life Safety Code (NFPA 101) and International Fire Code (IFC). The Step Edge Contrast will be effective in all light conditions including during failure of the main lighting.

COMPLIANCE

Tested to UL 1994 specifications to meet the requirements of NFPA 101 and IFC. This product has also been independently tested for use in Performance Solutions to meet the performance requirements of any performance based building codes.

The Step Edge Contrast is suitable for use indoors and outdoors. The anti-slip material provides all weather protection from slips and falls.

Anti-slip Properties – UL410 Standard for Slip Resistance for Floor Surface Materials

AS/NZS 4586-2004 Classification: Dry: F Wet: V Ramp: R13

AS 4586-2013 Classification: P5

UV Resistance - Loss of luminance after 1000 hrs ASTM G-155 Cycle 1 exposure: <10%

Salt Spray Resistance – ASTM B117: Pass

Washability – ASTM D4828: Pass

Rate of Burning – ASTM D635: Pass

Surface Flammability - ASTM E162: Pass

Toxicity - Bombardier Toxic Gas Generation Test SMP800-C: Pass

Radioactivity - ASTM D3648: Pass

SUPPLY

The products are available in 100mm increments from 600mm to 1500mm to comply with IBC recommendations to mark the escape path on the front edge of the step to within 50mm of the wall or the side of the step. Custom lengths can also be fabricated on site or in the factory from 2.45 metre or 3.06 metre lengths.

COMPOSITION

Ecoglo E4-073 Step Edge Contrast is manufactured from extruded 60605T aluminium section. Silicon Carbide anti-slip materials and custom made photoluminescent pigment are embedded in thermoset polyester carriers to integrally bond the active ingredients into the aluminium following curing at high temperature. The photoluminescent area is also recessed into protective channels.

INSTALLATION

Indoors the E4-073 Step Edge Contrast can be surface mounted on all smooth surfaces. Outdoors the E4-073 Step Edge Contrast can be surface mounted onto concrete.

Installation is a simple process using polyurethane adhesive.

Maximum recommended length for outdoor installation is 1500mm.

Consult Installation Instructions on website for full details and surface preparation.

Screws can be used if adhesion is difficult.

(See order codes below for the product that best suits).

E4-073 For polyurethane adhesive fixing
E4-073P Punched for screw fixing

PRODUCT CODE	PRODUCT DESCRIPTION	PRODUCT LENGTH
E4-073-600	Step Edge Contrast 51mm	600mm
E4-073-700	Step Edge Contrast 51mm	700mm
E4-073-800	Step Edge Contrast 51mm	800mm
E4-073-900	Step Edge Contrast 51mm	900mm
E4-073-1000	Step Edge Contrast 51mm	1000mm
E4-073-1100	Step Edge Contrast 51mm	1100mm
E4-073-1200	Step Edge Contrast 51mm	1200mm
E4-073-1300	Step Edge Contrast 51mm	1300mm
E4-073-1400	Step Edge Contrast 51mm	1400mm
E4-073-1500	Step Edge Contrast 51mm	1500mm

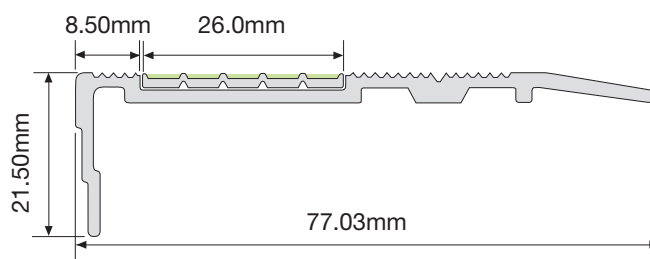
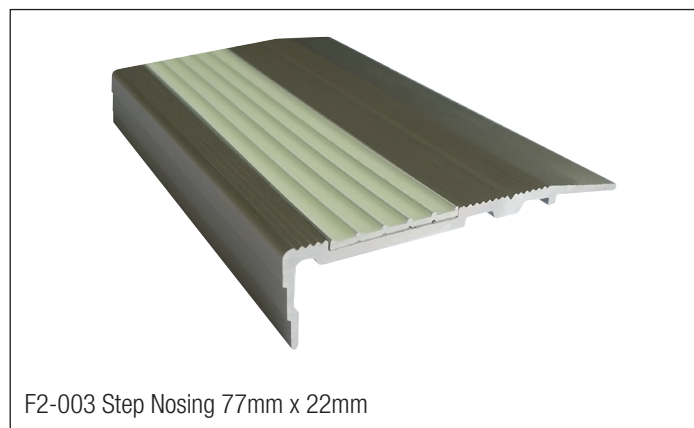
Contact

Ecoglo International Limited

Email: info@ecoglo.com Web: www.ecoglo.com

Product Data Sheet - Step Nosing F2-003

2018 V1



The F2-003 Step Nosing is designed to ensure visibility of steps in escape routes for compliance with NFPA 101 Life Safety Code (NFPA 101) and International Fire Code (IFC). The Step Nosing will be effective in all light conditions including during failure of the main lighting.

COMPLIANCE

Tested to UL 1994 specifications to meet the requirements of NFPA 101 and IFC. This product has also been independently tested for use in Performance Solutions to meet the performance requirements of any performance based building codes.

The Step Nosing is suitable for use indoors and outdoors.

UV Resistance - Loss of luminance after 1000 hrs ASTM G-155 Cycle 1 exposure: <10%

Salt Spray Resistance – ASTM B117: Pass

Washability – ASTM D4828: Pass

Rate of Burning – ASTM D635: Pass

Surface Flammability - ASTM E162: Pass

Toxicity - Bombardier Toxic Gas Generation Test SMP800-C: Pass

Radioactivity - ASTM D3648: Pass

SUPPLY

The products are available in 100mm increments from 600mm to 1500mm to comply with IBC recommendations to mark the escape path on the front edge of the step to within 50mm of the wall or the side of the step.

COMPOSITION

The F2-003 Step Nosing profile consists of 6063T5 mill finished aluminium extrusion.

Ecoglo G6-003 Guidance Strip is adhesively fixed into the extrusion. The high visibility G6-003 is manufactured from extruded 60605T aluminium section. Custom made photoluminescent pigments are embedded in thermoset polyester carriers to integrally bond the active ingredients into the aluminium following curing at high temperature. The photoluminescent area is also recessed into protective channels.

INSTALLATION

The F2-003 Step Nosing can be used on a range of substrates including concrete, timber, tiles, vinyl, steel and checker plate. Uni clamp assemblies can be used for installation onto steel mesh steps.

Installation is a simple process using fixers (supplied) and polyurethane adhesive. It can also be fitted over steps with an industrial or commercial style carpet with no underlay. For thicker carpet, cut the carpet away and use a packer.

Maximum recommended length for outdoor installation is 1500mm.

Consult Installation Instructions on website for full details and surface preparation.

PRODUCT CODE	PRODUCT DESCRIPTION	PRODUCT LENGTH
F2-003-600	Step Nosing 77mm x 22mm	600mm
F2-003-700	Step Nosing 77mm x 22mm	700mm
F2-003-800	Step Nosing 77mm x 22mm	800mm
F2-003-900	Step Nosing 77mm x 22mm	900mm
F2-003-1000	Step Nosing 77mm x 22mm	1000mm
F2-003-1100	Step Nosing 77mm x 22mm	1100mm
F2-003-1200	Step Nosing 77mm x 22mm	1200mm
F2-003-1300	Step Nosing 77mm x 22mm	1300mm
F2-003-1400	Step Nosing 77mm x 22mm	1400mm
F2-003-1500	Step Nosing 77mm x 22mm	1500mm

Contact

Ecoglo International Limited

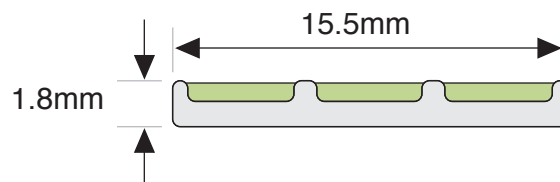
Email: info@ecoglo.com Web: www.ecoglo.com



The G3-001 Guidance Strip is designed to ensure visibility of specified building features in escape routes for compliance with NFPA 101 Life Safety Code (NFPA 101) and International Fire Code (IFC), and any performance based building codes. The Guidance Strip will be effective in all light conditions including during failure of the main lighting.

COMPLIANCE

Tested to UL 1994 specifications to meet the requirements of NFPA 101 and IFC. This product has also been independently tested for use in Performance Solutions to meet the performance requirements of any performance based building codes.



The Guidance Strip is suitable for use indoors and outdoors.

UV Resistance - Loss of luminance after 1000 hrs ASTM G-155
Cycle 1 exposure: <10%

Salt Spray Resistance – ASTM B117: Pass

Washability –ASTM D4828: Pass

Rate of Burning – ASTM D635: Pass

Surface Flammability - ASTM E162: Pass

Toxicity - Bombardier Toxic Gas Generation Test SMP800-C: Pass

Radioactivity - ASTM D3648: Pass

SUPPLY

The products are available in 1 metre lengths and 3.06 metre lengths.

COMPOSITION

Ecoglo G3-001 Guidance Strip is manufactured from extruded 6060T5 aluminium section. Custom made photoluminescent pigments are embedded in thermoset polyester carriers to integrally bond the active ingredients into the aluminium following curing at high temperature. The photoluminescent area is also recessed into protective channels.

INSTALLATION

Installation is a simple process using polyurethane adhesive, fixers (screws) or pre-fitted release tape.

Fixers (screws) can be used if adhesion is difficult.

(See order codes below for the product that best suits).

Consult Installation Instructions on website for full details and surface preparation.

G3-001-1000 For polyurethane adhesive fixing

G3-001-3060 For polyurethane adhesive fixing

G3-001P-1000 Punched for screw fixing

G3-001P-3060 Punched for screw fixing

G3-001T-1000 Release tape pre-fitted

G3-001T-3060 Release tape pre-fitted

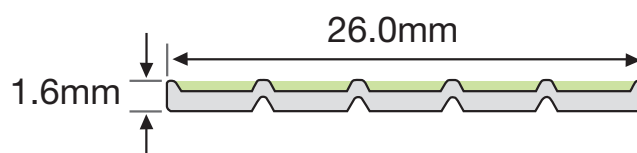
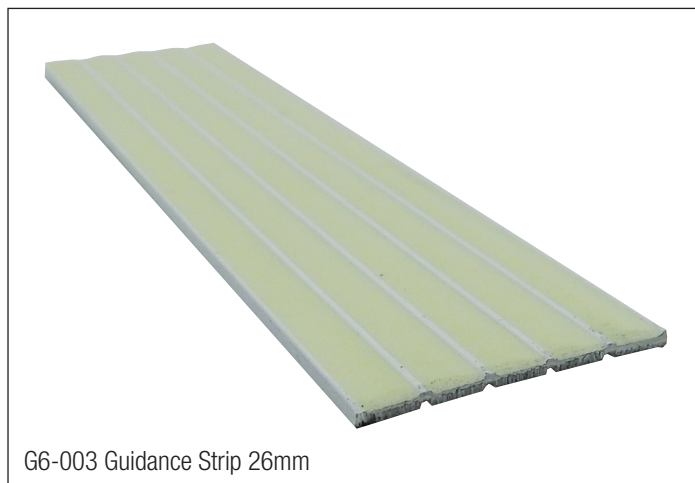
Contact

Ecoglo International Limited

Email: info@ecoglo.com Web: www.ecoglo.com

Product Data Sheet - Guidance Strip G6-003

2018 V2



The G6-003 Guidance Strip is designed to ensure visibility of specified building features in escape routes for compliance with NFPA 101 Life Safety Code (NFPA 101) and International Fire Code (IFC). The Guidance Strip will be effective in all light conditions including during failure of the main lighting.

COMPLIANCE

Tested to UL 1994 specifications to meet the requirements of NFPA 101 and IFC. This product has also been independently tested for use in Performance Solutions to meet the performance requirements of any performance based building codes.



The Guidance Strip is suitable for use indoors and outdoors.

UV Resistance - Loss of luminance after 1000 hrs ASTM G-155

Cycle 1 exposure: <10%

Salt Spray Resistance – ASTM B117: Pass

Washability – ASTM D4828: Pass

Rate of Burning – ASTM D635: Pass

Surface Flammability - ASTM E162: Pass

Toxicity - Bombardier Toxic Gas Generation Test SMP800-C: Pass

Radioactivity - ASTM D3648: Pass

SUPPLY

The products are available in 1 metre lengths and 3.06 metre lengths.

COMPOSITION

Ecoglo G6-003 Guidance Strip is manufactured from extruded 6060T5 aluminium section. Custom made photoluminescent pigments are embedded in thermoset polyester carriers to integrally bond the active ingredients into the aluminium following curing at high temperature. The photoluminescent area is also recessed into protective channels.

INSTALLATION

Installation is a simple process using polyurethane adhesive, fixers (screws) or pre-fitted release tape.

Fixers (screws) can be used if adhesion is difficult.

(See order codes below for the product that best suits).

Consult Installation Instructions on website for full details and surface preparation.

G6-003-1000 For polyurethane adhesive fixing

G6-003-3060 For polyurethane adhesive fixing

G6-003P-1000 Punched for screw fixing

G6-003P-3060 Punched for screw fixing

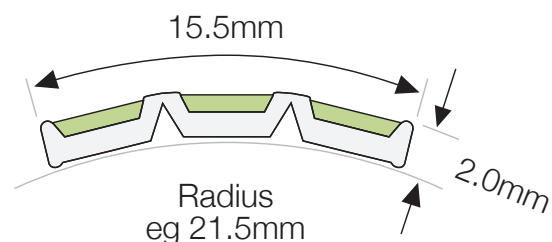
G6-003T-1000 Release tape pre-fitted

G6-003T-3060 Release tape pre-fitted

Contact

Ecoglo International Limited

Email: info@ecoglo.com Web: www.ecoglo.com



The H3-001 Handrail Marker is designed to ensure visibility of specified building features in escape routes for compliance with NFPA 101 Life Safety Code (NFPA 101) and International Fire Code (IFC), and any performance based building codes. The Handrail Marker will be effective in all light conditions including during failure of the main lighting.

COMPLIANCE

Tested to UL 1994 specifications to meet the requirements of NFPA 101 and IFC. This product has also been independently tested for use in Performance Solutions to meet the performance requirements of any performance based building codes.



The Handrail Wall Strip is suitable for use indoors and outdoors.

UV Resistance - Loss of luminance after 1000 hrs ASTM G-155
Cycle 1 exposure: <10%

Salt Spray Resistance – ASTM B117: Pass

Washability –ASTM D4828: Pass

Rate of Burning – ASTM D635: Pass

Surface Flammability - ASTM E162: Pass

Toxicity - Bombardier Toxic Gas Generation Test SMP800-C: Pass

Radioactivity - ASTM D3648: Pass

SUPPLY

The products are available in 1 metre and 3.06 metre lengths.

COMPOSITION

Ecoglo H3-001 Handrail Marker is manufactured from extruded 6060T5 aluminium section. Custom made photoluminescent pigments are embedded in thermoset polyester carriers to integrally bond the active ingredients into the aluminium following curing at high temperature. The photoluminescent area is also recessed into protective channels.

INSTALLATION

Installation is a simple process using pre-fitted release tape.

Consult Installation Instructions on website for full details and surface preparation.

Screws or rivets can be used if adhesion is difficult.

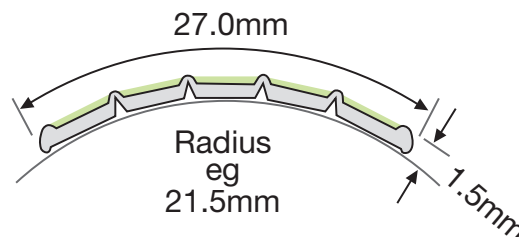
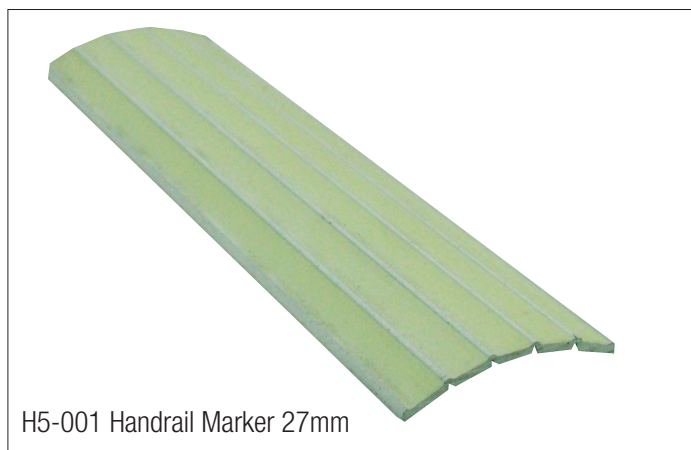
H3-001T-1000 Release tape pre-fitted

H3-001T-3060 Release tape pre-fitted

Contact

Ecoglo International Limited

Email: info@ecoglo.com Web: www.ecoglo.com



The H5-001 Handrail Marker is designed to ensure visibility of specified building features in escape routes for compliance with NFPA 101 Life Safety Code (NFPA 101) and International Fire Code (IFCC). The Handrail Marker will be effective in all light conditions including during failure of the main lighting.

COMPLIANCE

Tested to UL 1994 specifications to meet the requirements of NFPA 101 and IFC. This product has also been independently tested for use in Performance Solutions to meet the performance requirements of any performance based building codes.



The Handrail Wall Strip is suitable for use indoors and outdoors.

UV Resistance - Loss of luminance after 1000 hrs ASTM G-155
Cycle 1 exposure: <10%

Salt Spray Resistance – ASTM B117: Pass

Washability –ASTM D4828: Pass

Rate of Burning – ASTM D635: Pass

Surface Flammability - ASTM E162: Pass

Toxicity - Bombardier Toxic Gas Generation Test SMP800-C: Pass

Radioactivity - ASTM D3648: Pass

SUPPLY

The products are available in 1 metre and 3.06 metre lengths.

COMPOSITION

Ecoglo H5-001 Handrail Marker is manufactured from extruded 6060T5 aluminium section. Custom made photoluminescent pigments are embedded in thermoset polyester carriers to integrally bond the active ingredients into the aluminium following curing at high temperature. The photoluminescent area is also recessed into protective channels.

INSTALLATION

Installation is a simple process using pre-fitted release tape.

Consult Installation Instructions on website for full details and surface preparation.

Screws or rivets can be used if adhesion is difficult.

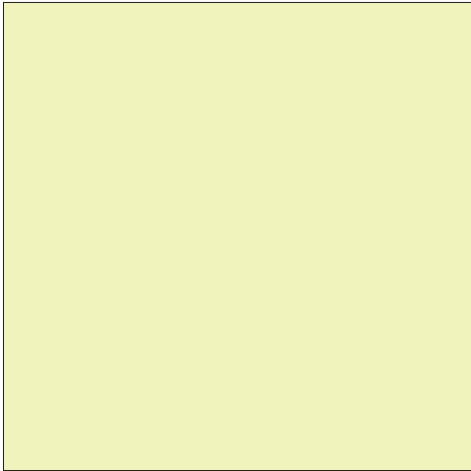
H5-001T-1000 Release tape pre-fitted

H5-001T-3060 Release tape pre-fitted

Contact

Ecoglo International Limited

Email: info@ecoglo.com Web: www.ecoglo.com



Ecoglo S5 Door Handle Markers are designed to be clearly visible to persons approaching the exit for compliance with NFPA 101 Life Safety Code and International Fire Code (IFC). The Door Handle Marker will be visible and readily understandable under all conditions of foreseeable use, including emergency conditions.

COMPLIANCE

Ecoglo S5 Door Handle Markers meet ASTM E 2072 requirements and are NFPA 101 Life Safety Code and IFC compliant.

PERFORMANCE

A charging source of 1 ft-candle (11 lux) of fluorescent illumination is necessary for 60 minutes to ensure that minimum luminance requirements of 30 mcd/m2 at 10 minutes and 5 mcd/m2 at 90 minutes are met after failure of the main lighting.

UV Resistance – Loss of luminance after 1000 hrs ASTM G-155

Cycle 1 exposure: <10%

Salt Spray Resistance – ASTM B117: Pass

Washability – ASTM D4828: Pass

Rate of Burning – ASTM D635: Pass

Surface Flammability – ASTM E162: Pass

Toxicity – Bombardier Toxic Gas Generation Test SMP800-C: Pass

Radioactivity – ASTM D3648: Pass

SUPPLY

The product is available in the following size.

PRODUCT CODE	PRODUCT NAME	MARKER DEFINITION	MARKER SIZE
S5-DHM1010	Door Handle Marker	Not applicable	100mm x 100mm

COMPOSITION

The high visibility flat panel is manufactured from 5005 0.9mm aluminium sheet. Custom made photoluminescent pigments are embedded in thermoset polyester carriers to integrally bond the active ingredients onto the aluminium sheet following curing at high temperature.

INSTALLATION

The door marker is supplied with pre-fitted release tape for fixing flat on a door.

Contact

Ecoglo International Limited

Email: info@ecoglo.com **Web:** www.ecoglo.com

1. Identification

Product Name

Ecoglo S5 Flat Panel Signs including: S5-RML1010, S5-RMR1010, S5-ARS1010, S5-ARD1010, S5-SID4530, S5-DHM1010

Manufacturer Details

Company: Ecoglo International Ltd
Address: 77 Kingsley St, Christchurch 8440, New Zealand
Phone No: +64 3 348 3781

2. Hazard Identification

Not classified as hazardous or dangerous as per GHS.

3. Composition/information on ingredients

Component	CAS No.	Proportion
Aluminium Alloy (5005)	-	70-85%
Strontium Aluminate based photoluminescent pigment	-	5-15%
Cross-linked thermoset polyester based resins	-	10-30%
Other components	-	< 1%

4. First-aid measures

No special measures required.

5. Fire-fighting measures

No special measures required.

6. Accidental release measures

Not applicable.

7. Handling and storage

Cut edges may be sharp. No special storage requirements.

8. Exposure controls and personal protection

Wear gloves when handling.

9. Physical and chemical properties

Appearance:	Solid sheet material
Odour:	N/A
Melting point:	N/A
Specific gravity:	2.2-2.7 g/cc
Volatile:	N/A
Vapour pressure:	N/A
Vapour density:	N/A
Solubility in water:	Insoluble
Flammability:	Not easily combustible. Passes Bombardier SMP 800-C Toxic gas generation test
Explosivity:	Not explosive

10. Stability and reactivity

Hazardous reactions:	None known
Radioactivity:	Not Radioactive

11. Toxicological information

No toxicological properties.

12. Ecological information

No ecological hazards.

13. Disposal considerations

Offcuts can be sent for aluminium recycling.

14. Transport information

Not restricted.

15. Regulatory information

None applicable to product.

16. Any other relevant information

None.

1. Identification

Product Name

Ecoglo Step Edge Contrast including:

E14-075-600, E14-075-700, E14-075-800, E14-075-900, E14-075-1000, E14-075-1100, E14-075-1200, E14-075-1300, E14-075-1400, E14-075-1500, E14-075-2450, E14-075-3060, E2-071-600, E2-071-700, E2-071-800, E2-071-900, E2-071-1000, E2-071-1100, E2-071-1200, E2-071-1300, E2-071-1400, E2-071-1500, E2-071-2450, E2-071-3060, E4-073-600, E4-073-700, E4-073-800, E4-073-900, E4-073-1000, E4-073-1100, E4-073-1200, E4-073-1300, E4-073-1400, E4-073-1500, E4-073-2450, E4-073-3060

Manufacturer Details

Company: Ecoglo International Ltd

Address: 77 Kingsley St, Christchurch 8440, New Zealand

Phone No: +64 3 348 3781

2. Hazard Identification

Not classified as hazardous or dangerous as per GHS.

3. Composition/information on ingredients

Component

Component	CAS No.	Proportion
Aluminium Alloy (6063)	-	50-80%
Strontium Aluminate based photoluminescent pigment	-	0-10%
Cross-linked thermoset polyester based resins	-	10-30%
Silicon Carbide	-	5-20%
Other components	-	< 0.5%

4. First-aid measures

No special measures required.

5. Fire-fighting measures

No special measures required.

6. Accidental release measures

Not applicable.

7. Handling and storage

Cut edges may be sharp. No special storage requirements.

8. Exposure controls and personal protection

Wear gloves when handling.

9. Physical and chemical properties

Appearance:	Solid Strip material
Odour:	N/A
Melting point:	N/A
Specific gravity:	2.2-2.7 g/cc
Volatile:	N/A
Vapour pressure:	N/A
Vapour density:	N/A
Solubility in water:	Insoluble
Flammability:	Not easily combustible. Passes Bombardier SMP 800-C Toxic gas generation test
Explosivity:	Not explosive

10. Stability and reactivity

Hazardous reactions: None known

Radioactivity: Not Radioactive

11. Toxicological information

No toxicological properties.

12. Ecological information

No ecological hazards.

13. Disposal considerations

Offcuts can be sent for aluminium recycling.

14. Transport information

Not restricted.

15. Regulatory information

None applicable to product.

16. Any other relevant information

None.

1. Identification

Product Name

Ecoglo Step Nosings and Path Markers including:

F2-003-600, F2-003-700, F2-003-800, F2-003-900, F2-003-1000, F2-003-1100, F2-003-1200, F2-003-1300, F2-003-1400, F2-003-1500, F4-171-600, F4-171-700, F4-171-800, F4-171-900, F4-171-1000, F4-171-1100, F4-171-1200, F4-171-1300, F4-171-1400, F4-171-1500, F14-175-600, F14-175-700, F14-175-800, F14-175-900, F14-175-1000, F14-175-1100, F14-175-1200, F14-175-1300, F14-175-1400, F14-175-1500, G7-100, T5-101, T6-101

Manufacturer Details

Company: Ecoglo International Ltd

Address: 77 Kingsley St, Christchurch 8440, New Zealand

Phone No: +64 3 348 3781

2. Hazard Identification

Not classified as hazardous or dangerous as per GHS.

3. Composition/information on ingredients

Component	CAS No.	Proportion
Aluminium Alloy (6063)	-	80-95%
Strontium Aluminate based photoluminescent pigment	-	2-5%
Cross-linked thermoset polyester based resins	-	4-10%
Silicon Carbide	-	2-5%
Other components	-	< 3.4%

4. First-aid measures No special measures required.

5. Fire-fighting measures No special measures required.

6. Accidental release measures Not applicable.

7. Handling and storage Cut edges may be sharp. No special storage requirements.

8. Exposure controls and personal protection Wear gloves when handling.

9. Physical and chemical properties

Appearance:	Solid Strip material
Odour:	N/A
Melting point:	N/A
Specific gravity:	2.2-2.7 g/cc
Volatile:	N/A
Vapour pressure:	N/A
Vapour density:	N/A
Solubility in water:	Insoluble
Flammability:	Not easily combustible. Passes Bombardier SMP 800-C Toxic gas generation test
Explosivity:	Not explosive

10. Stability and reactivity

Hazardous reactions: None known

Radioactivity: Not Radioactive

11. Toxicological information No toxicological properties.

12. Ecological information No ecological hazards.

13. Disposal considerations Offcuts can be sent for aluminium recycling.

14. Transport information Not restricted.

15. Regulatory information None applicable to product.

16. Any other relevant information None.

1. Identification

Product Name

Ecoglo Guidance Strips and Handrail Markers including: MS-26-1000, G3-001-1000, G3-001-1500, G3-001-3060, G4-001-1000, G6-003-1000, G6-003-3060, H3-001-1000, H3-001-1500, H3-001-3060, H5-001-1000, H5-001-3060

Manufacturer Details

Company: Ecoglo International Ltd

Address: 77 Kingsley St, Christchurch 8440, New Zealand

Phone No: +64 3 348 3781

2. Hazard Identification

Not classified as hazardous or dangerous as per GHS.

3. Composition/information on ingredients

Component

Aluminium Alloy (6063)

Strontium Aluminate based photoluminescent pigment

Cross-linked thermoset polyester based resins

Other components

CAS No.	Proportion
-	60-80%
-	5-15%
-	10-30%
-	<0.2%

4. First-aid measures

No special measures required.

5. Fire-fighting measures

No special measures required.

6. Accidental release measures

Not applicable

7. Handling and storage

Cut edges may be sharp. No special storage requirements.

8. Exposure controls and personal protection

Wear gloves when handling.

9. Physical and chemical properties

Appearance: Solid Strip material

Odour: N/A

Melting point: N/A

Specific gravity: 2.2-2.7 g/cc

Volatile: N/A

Vapour pressure: N/A

Vapour density: N/A

Solubility in water: Insoluble

Flammability: Not easily combustible. Passes Bombardier SMP 800-C Toxic gas generation test

Explosivity: Not explosive

10. Stability and reactivity

Hazardous reactions: None known

Radioactivity: Not Radioactive

11. Toxicological information

No toxicological properties.

12. Ecological information

No ecological hazards.

13. Disposal considerations

Offcuts can be sent for aluminium recycling

14. Transport information

Not restricted.

15. Regulatory information

None applicable to product.

16. Any other relevant information

None.

This information is offered in good faith to the best of our current knowledge. No warranty, expressed or implied, regarding the accuracy of this data, the hazards connected with use of the material, or the results to be obtained from the use thereof, is made. Ecoglo International Ltd. assumes no responsibility for damage or injury from the use of this product.

Installation Instructions For

Anti-Slip Strip E Series

Concrete and Timber



1. Preparation of Surface

- Thoroughly clean the surface with industrial strength cleaner if necessary.
- Remove any loose paint or sealant and then allow surface to dry.
- If painted or coated, check that adhesive is compatible with the paint or seal coating. IF IN DOUBT REMOVE COATING.

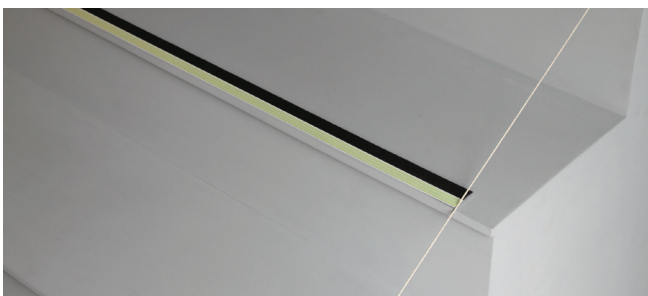


Note: Installation onto Concrete Surfaces

- It is important to use adhesive only for concrete installations. The adhesive will allow some movement to compensate for thermal contraction and expansion and will provide durable adhesion to the concrete substrate.

2. Alignment of the Strips

- Mark 50mm from the left edge of the top step.
- Mark 50mm from the left edge of the bottom step.
- Place a string line between the marks to ensure the strip on each step will be correctly aligned.



- The maximum recommended length for installation in outdoor situations is 1.5 metres.
- There must be a 3mm gap between lengths. This allows for thermal expansion in extreme weather conditions and also aids in water drainage off the step tread.
- Leave a 3mm gap either side of built-in steps

3. Preparation of the Strip

- Clean back of contrast strip with soft cloth and if necessary use methylated spirits (or similar solvent) to remove oil or grease
- Allow to dry for approximately 1 minute.

4. Applying the Adhesive

- Apply a 3mm zigzag bead of polyurethane adhesive (such as Wurth KD Bond and Seal or Bostik Seal n Flex FC) to the back of the strip, 3mm in from the edges.
- Continue along the length of the strip.



Adhesive Usage:

E2 Series - 30 metres per 600ml

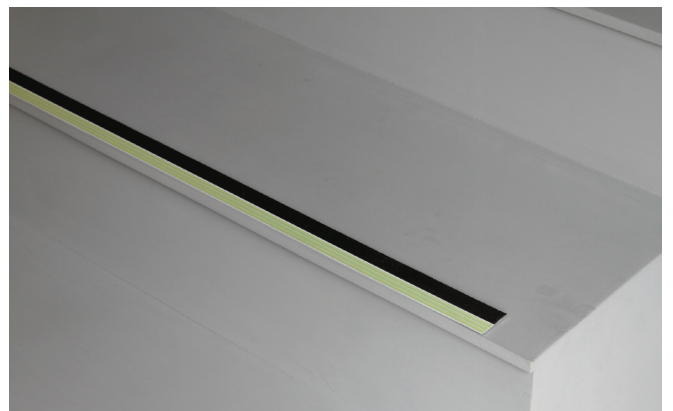
E4 Series - 25 metres per 600ml

E14 Series - 25 metres per 600ml

Ecoglo can supply Wurth KD Bond and Seal in 600ml Sausage form with Applicator Gun.

5. Placement of the Strip

- Line up the strip with your alignment marks and position approximately 2-3mm back from the front straight edge of the step.
- Place in position with the photoluminescent (light green) component of the strip to the leading edge of the step (see image below).



Steps with exposed sides:

Ensure the nosing is set back from exposed side by at least 20mm to ensure the outer edge of the nosing does not present a sharp hazard.

6. Apply Pressure to the Strip

- Apply even pressure to spread the adhesive beneath the strip using a hand roller.
- If necessary stand on each strip to ensure good contact between the strip and the step.



7. Allow the Adhesive to Cure

- Immediately following installation close off the area for a period of 8 hours to avoid the Ecoglo strip being moved whilst the adhesive is in the early stages of "cure".
- Wait until adhesive has fully cured (allow at least 24 hours) before trimming any excess from each strip with a sharp blade.

8. Use of Fixers (for Outdoor Timber installations only)

Note: Indoor installations only require adhesive

Outdoor Timber becomes a two step process

For outdoor timber installations both adhesive and fixers should be used because installation onto outdoor timber surfaces varies due to the uneven nature of timber, the various types of timber (eg pine or kwila), the protective coating (eg paint or sealer) and seasonal temperature variances.

Step 1:

- Apply adhesive as per steps 3-4 taking care to keep adhesive away from pre drilled holes.
- Place strip as per steps 5-6.
- Leave the adhesive to cure for 7 days before installing the fixers.

Step 2:

- Place a screw fixer into each hole and drill in securely using a battery drill.
- Do not fully tighten the fixers to avoid compressing the adhesive.

For timber installations the strips should be pre-drilled through the anti-slip material. The table below shows the number of drill holes required to allow for the natural contraction and expansion of timber.



Hole Drilling Specifications

Hole Drilling Specification	Less than 350mm	350mm - 650mm	650mm - 950mm	950mm - 1250mm	1250mm - 1500mm
Number of Holes	2	3	4	5	6

Holes for fixers are usually drilled as part of manufacturing. If for any reason the product was ordered, or supplied, without holes where fixers are required then Ecoglo recommend the hole spacings shown in the table above for maximum durability.

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www.ecoglo.com

Installation Instructions For

Step Nosing F Series

Two-Part Installation Concrete and Timber



1. Preparation of Surface

- Brush the surface clean of dust and debris. If necessary, clean with an industrial cleaner.
- Remove any paint or sealant and then allow the surface to dry.
- It is better for adhesion if timber surfaces are dry.



Steps with exposed sides:

Ensure the nosing is set back from exposed side by at least 20mm to ensure the outer edge of the nosing does not present a sharp hazard.

Built-in steps, Installed outdoors:

Leave a 3mm gap between the nosing and the built-in sides, to allow for thermal expansion, and water drainage.

NOTE: The maximum recommended length for installation in outdoor situations is 1.5 metres. A 3mm expansion / drainage gap must be left between lengths.

2. Alignment (for installation onto more than one step)

- Place one piece of step nosing on the top step and one on the bottom step.
- Run a string line from the left edge of the top nosing to the left edge of the bottom nosing.
- This will give you a straight, true line.



3. Locating Holes for Fixers (for Timber skip to step 5)

- Place the nosing firmly against the riser of the step.
- Line it up with your string line.
- Mark the location of the drill holes with the drill.
- Remove the nosing.

NOTE: The F14-175 nosing comes pre-drilled with holes every 100mm. You only require 4 fixers per metre. Fixers should be zig-zagged across the pre-drilled holes to give maximum support to both sides of the nosing.

4. Drilling holes for fixers (for Timber skip to step 5)

- Using a 6mm masonry bit, and a concrete drill, drill the hole that will house the plastic anchor.
- Wipe away any dust or debris.
- Place the plastic anchor fully in to the holes.



5. Applying Adhesive

- Lay a 3mm bead of polyurethane adhesive (such as Wurth KD Bond and Seal or Bostik Seal n Flex FC) in a wave pattern over the full length of the underside of the nosing.
- Keep the adhesive clear of the outside edge and the drill holes.



6. Securing the nosing profile

- Place the nosing firmly back onto the step, lining up the drill holes.
- Tighten the screws firmly using a battery hand drill- this will create a strong, even bond.
- For fixing on to wooden substrate follow the previous instructions but the plugs are not required.



Adhesive Usage:

11 metres per 600ml sausage

Ecoglo supply screw fixers with all orders and can also supply Wurth KD Bond and Seal in 600ml Sausage form with Applicator Gun.

7. Fixing Insert Strip

- Check nosing extrusion channel is free from dust, dirt, grease and moisture.
- Dust or wipe with methylated spirits or damp cloth if required.
- Lay a zigzag of adhesive, 1mm deep, 3mm wide on to the strip.
- Ensure that you don't over apply adhesive as it will spill out once the insert is placed into the nosing.



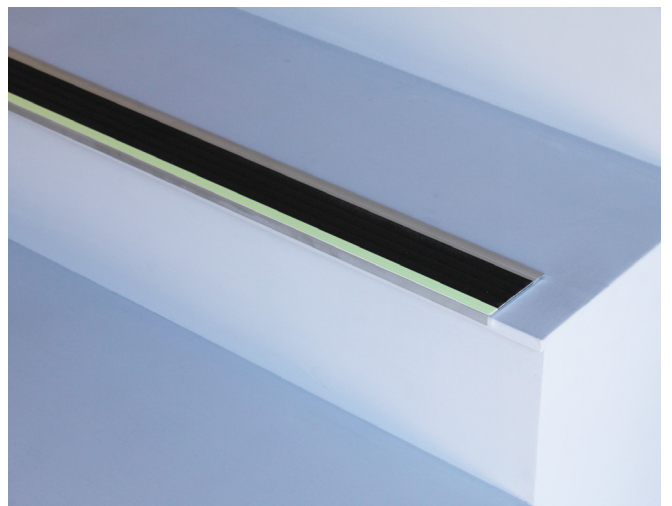
8. Insert strip into the nosing

- Line up the strip insert then place firmly onto the nosing.
- Press in place to ensure even contact, between the adhesive, and the surface of the channel.
- Use a roller or your foot to apply firm downward pressure.
- Use an alcohol wipe to remove any spill over of adhesive.



9. Curing of Adhesive

- Allow approximately 24 hours for adhesive to cure.



Installation Instructions For

Step Nosing F Series

Concrete and Timber



1. Preparation of Surface

- Brush the surface clean of dust and debris. If necessary, clean with an industrial cleaner.
- Remove any paint or sealant and then allow the surface to dry.
- It is better for adhesion if timber surfaces are dry.

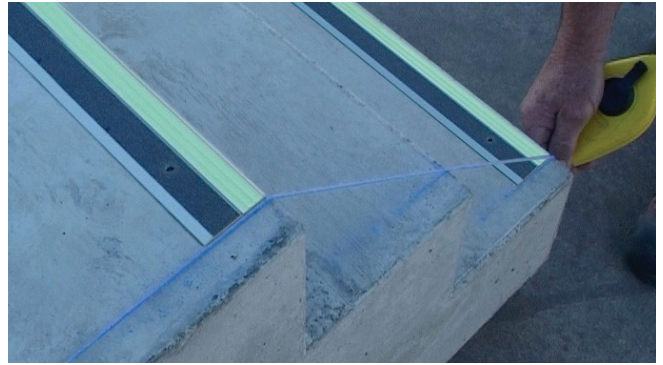
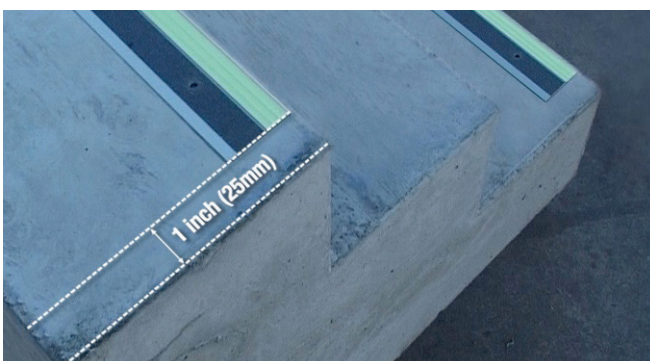


Steps with exposed sides:

Ensure the nosing is set back from exposed side by at least 20mm to ensure the outer edge of the nosing does not present a sharp hazard.

2. Alignment (for installation onto more than one step)

- Place one piece of step nosing on the top step and one on the bottom step.
- Run a string line from the left edge of the top nosing to the left edge of the bottom nosing.
- This will give you a straight, true line.



Built-in steps, Installed outdoors:

Leave a 3mm gap between the nosing and the built-in sides, to allow for thermal expansion, and water drainage.

NOTE: The maximum recommended length for installation in outdoor situations is 1.5 metres. A 3mm expansion / drainage gap must be left between lengths.

3. Locating Holes for Fixers (for Timber skip to step 5)

- Place the nosing firmly against the riser of the step.
- Line it up with your string line.
- Mark the location of the drill holes with the drill.
- Remove the nosing.



4. Drilling holes for fixers (for Timber skip to step 5)

- Using a 6mm masonry bit, and a concrete drill, drill the hole that will house the plastic anchor.
- Wipe away any dust or debris.
- Place the plastic anchor fully in to the holes.



5. Applying Adhesive

- Lay a 3mm bead of polyurethane adhesive (such as Wurth KD Bond and Seal or Bostik Seal n Flex FC) in a wave pattern over the full length of the underside of the nosing.
- Keep the adhesive clear of the outside edge and the drill holes.



Adhesive Usage:

22 metres per 600ml sausage

Ecoglo supply screw fixers with all orders and can also supply Wurth KD Bond and Seal in 600ml Sausage form with Applicator Gun.

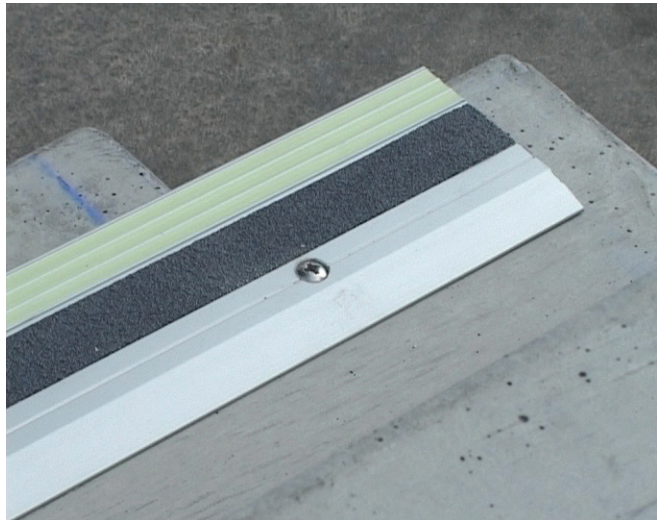
6. Fixing the Nosing

- Place the nosing firmly back onto the step, lining up the drill holes.
- Tighten the screws firmly using a battery hand drill- this will create a strong, even bond.
- For fixing on to wooden substrate follow the previous instructions but the plugs are not required.



7. Curing of Adhesive

- Use an alcohol wipe to remove any spill over of adhesive. Allow approximately 24 hours for adhesive to cure.



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Installation Instructions For

Guidance Strips G Series

Flat Surfaces



Ecoglo G-Series guidance strips are extremely versatile and can be applied on various types of surface, including walls, skirting board, floors, door frames, flat sided handrails and steps*. Generally, as long as the substrate is clean, flat and dry the product can be successfully installed.

Ecoglo G-Series guidance strips have a self-adhesive backing with a release tape for simple installation. (See Section 4 of these instructions if in any doubt about adhesion).

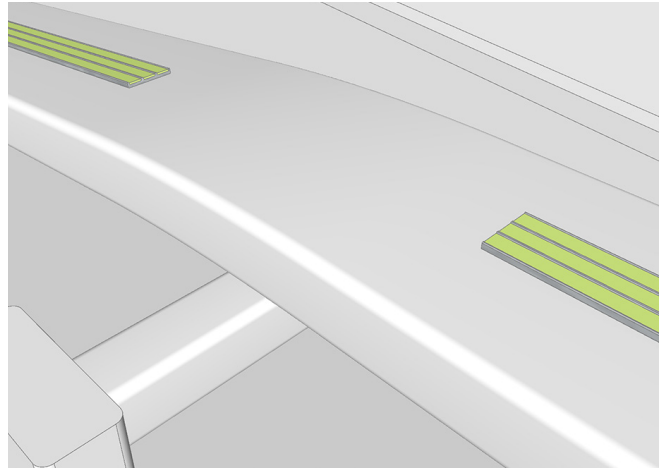
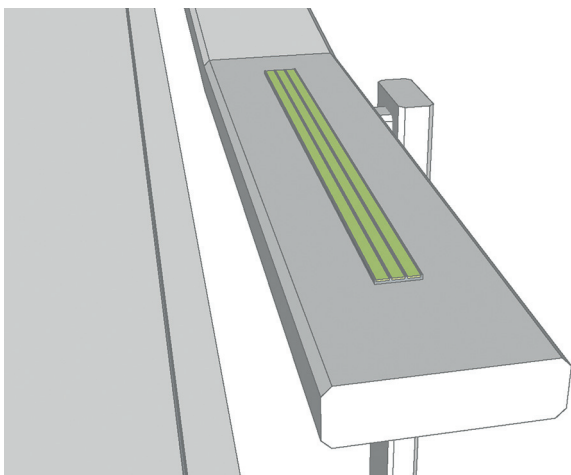
***Ecoglo G6-003 guidance strips are suitable for use on indoor steps which are not subject to daily use or heavy foot traffic. For outdoor steps, or steps which will be subjected to frequent or heavy foot traffic, visit www.ecoglo.com or contact Ecoglo at info@ecoglo.com for information on more suitable Ecoglo products.**

1. Preparation of Surface

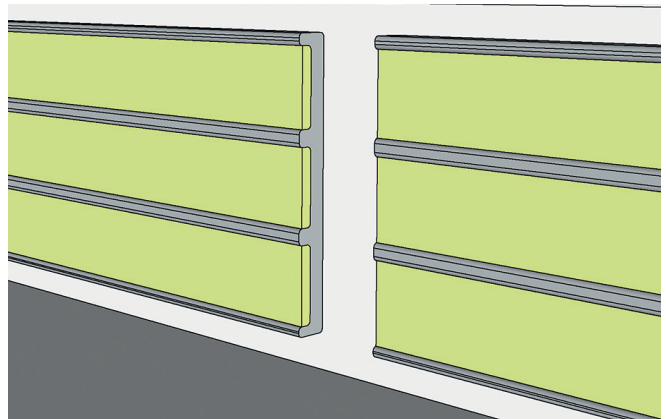
- Thoroughly clean the surface with an industrial strength cleaner if necessary.
- Remove any loose paint or sealant and then allow the surface to dry.
- If the surface has been painted or coated, check that adhesive is compatible with the paint or seal coating.
IF IN DOUBT REMOVE COATING.
- The tape is suitable for a temperature range of 0-40C.
- Maximum installation length is 1500mm.

2. Positioning, Alignment of the Strips

- If installing on a flat handrail or other surface such as a wall, mark the position where the strip is to be placed. Use a chalkline, plumb-line or spirit level if necessary to ensure the line is straight.
- If installing on steps, mark 50mm from the left edge of the top step, and 50mm from the left edge of the bottom step. Place a string line between the marks to ensure the strip on each step will be correctly aligned. This will give a straight, true line.
- Offer up the strip to the surface it is to be attached to, to make sure both surfaces are parallel. If the strip does not sit perfectly flat against the surface without being held in place, carefully bend the strip until it sits perfectly flat against the surface.



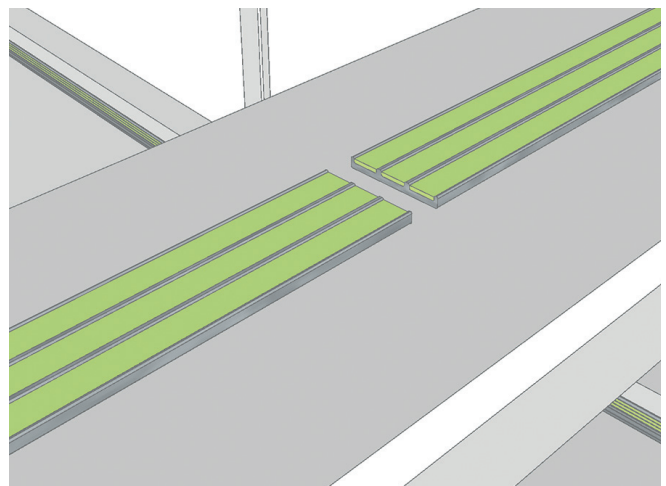
Do not bend guidance strips over bends. Set the strip 50mm from the bend.



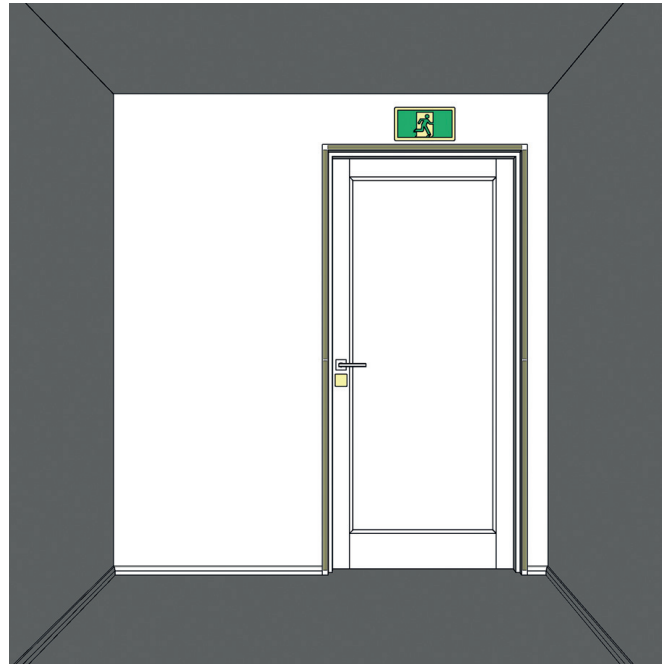
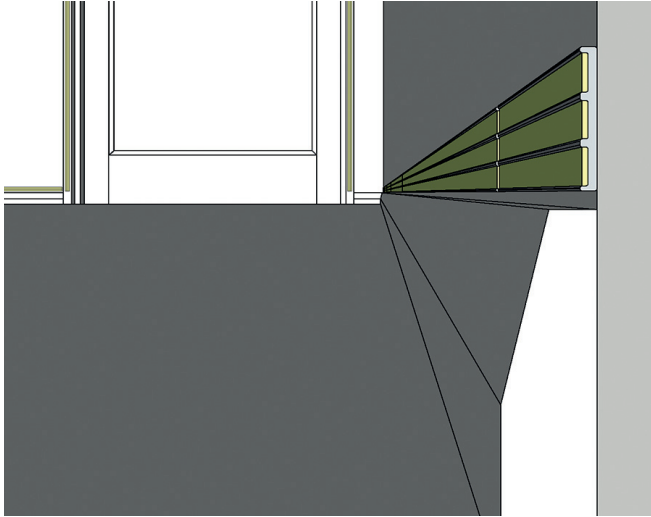
Where strips are to be butted together, there must always be a 3mm expansion gap between them. This allows for expansion and contraction between the Ecoglo strip and the building surface.

3. Placement of Adhesive-backed Strip

- Carefully peel off the release-tape backing from the strip.
- Carefully line the strip up with any alignment marks.
- Press the strip firmly in place to ensure even contact between the adhesive tape and the surface to which it is being applied.

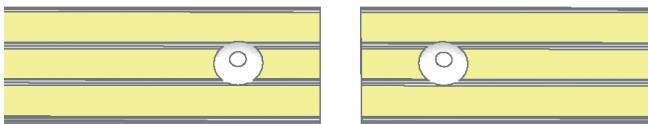


Guidance strip can be used to mark corridors, lobbies and indoor lengths of path and can be mounted either on the floor within 100mm of the wall, or on the wall within 100mm of the floor. Gaps of 3mm must be placed between strips.



4. Mechanical Fixers (Screws or Rivets)

- For handrails in schools or other places where vandalism may occur, screws (for timber, as described above) or rivets (for metal) **MUST** be used. Install one screw/rivet 10-15mm in from each end of each strip.
- For outdoor timber installations screws **MUST** also be used so that the adhesive tape isn't able to lift if the timber distorts or absorbs moisture due to normal weather conditions. 5mm pan head screws are suitable to be screwed down firmly but not so tight that the tape squashes under the strip. Install one screw 10-15mm in from each end and one screw in the middle of each strip.
- If in doubt about the adhesion of the strips to any substrate, use screws/rivets for additional security. Install one 10-15mm in from each end and one in the middle of each strip.



For guidance strips on handrails used in schools or public places, screws or rivets must be installed 10 – 15mm in from the end of each strip.

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Installation Instructions For

Handrail H Series

Wall Mounted and Freestanding
Round Handrails



1. Preparation of Surface

- Thoroughly clean the surface with an industrial strength cleaner.
- Remove any loose paint or sealant and then allow the surface to dry.
- Handrail must be dry



2. Alignment

- To ensure the Ecoglo Handrail Strip is installed in line, place a string line, slightly off centre, from the top end of the handrail to the bottom.
- This will serve as a guide for where to place each strip accurately onto the rail.



3. Placing Strip onto Handrail

- Remove the backing paper from the tape
- Line up the outside edge with the string line. The strip should be positioned approximately 50mm from the end of the handrail.
- Press firmly down.
- Repeat the above steps for the full length of the handrail leaving a 3mm gap between each length of handrail.



- If the overall length of the handrail is longer than 1 metre as supplied, then the 1 metre lengths should be placed at each end of the handrail and a separate unit should be measured and cut for the middle section.
- Following any cutting of the product, ensure edges are filed smooth and rounded.



4. Mechanical Fixers (screws or rivets)

- For handrails in schools or other places where vandalism may occur, screws (for timber, as described above) or rivets (for metal) MUST be used. Install one screw/rivet 10-15mm in from each end of each H series strip.
- For outdoor timber installations screws MUST also be used so that the adhesive tape isn't able to lift if the timber distorts or absorbs moisture due to normal weather conditions. 5mm pan head screws are suitable to be screwed down firmly but not so tight that the tape squashes under the strip. Install one screw 10-15mm in from each end and one screw in the middle of each H series strip.
- If in doubt about the adhesion of the strips to any substrate, use screws/rivets for additional security. Install one 10-15mm in from each end and one in the middle of each H series strip.

Note: Flat Handrails (applies to indoor installations only)

- Ecoglo G3-001 or G6-003 can be used on indoor handrails that have flat tops. The same method of installation applies.



Note: Under no circumstances, should handrail product be installed on or around a curve. This includes bends at each end of the handrail.

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