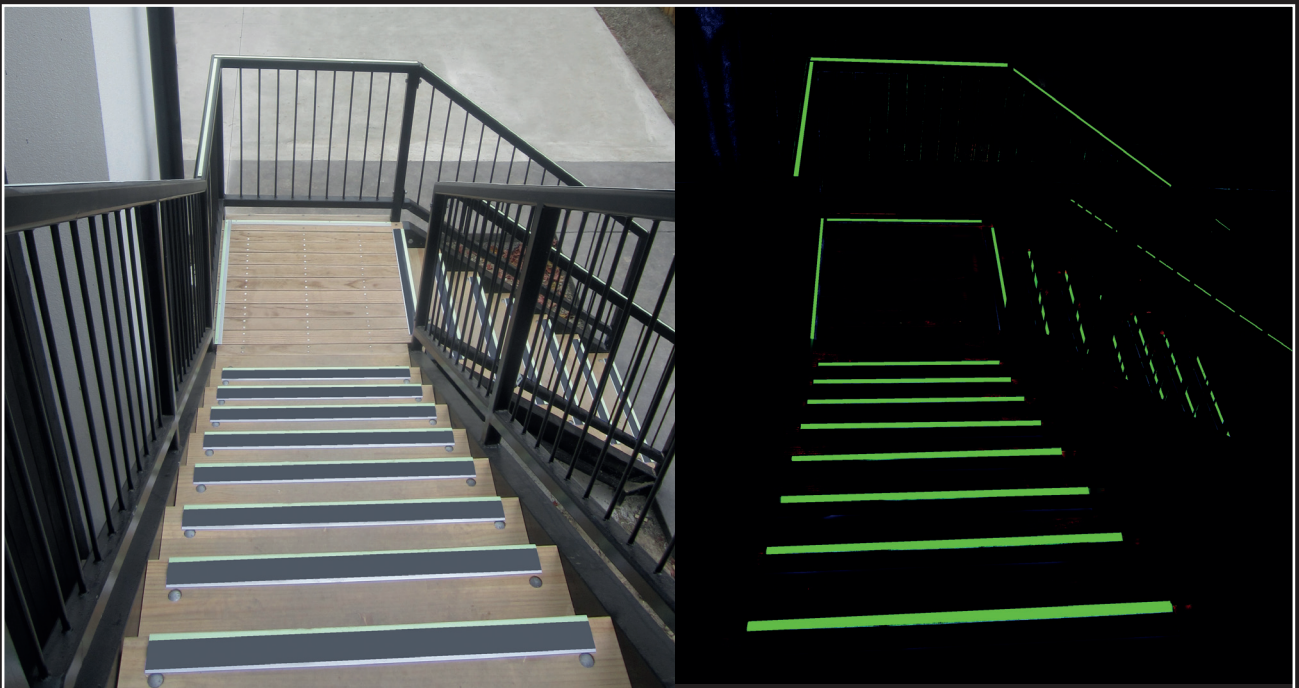


2018

INTERNATIONAL Catalogue

IFC Solutions

For NFPA 101 Life Safety Code Solutions Catalogue, Performance Solutions and UL924 Signs
visit www.ecoglo.com



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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®
VISIBLY BETTER

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 NFPA Life Safety Code and IFC.

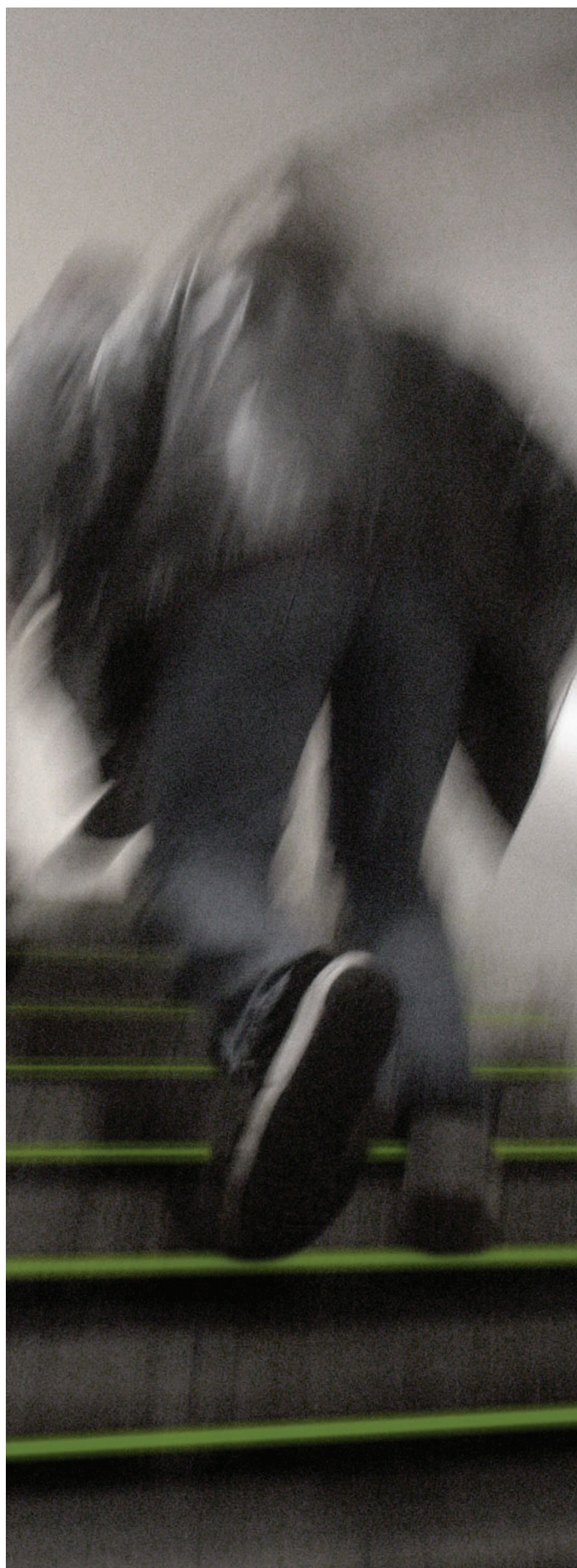
Ecoglo products provide sustainable and cost effective building solutions which are fail-safe, operate immediately and do not require ongoing maintenance.

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.



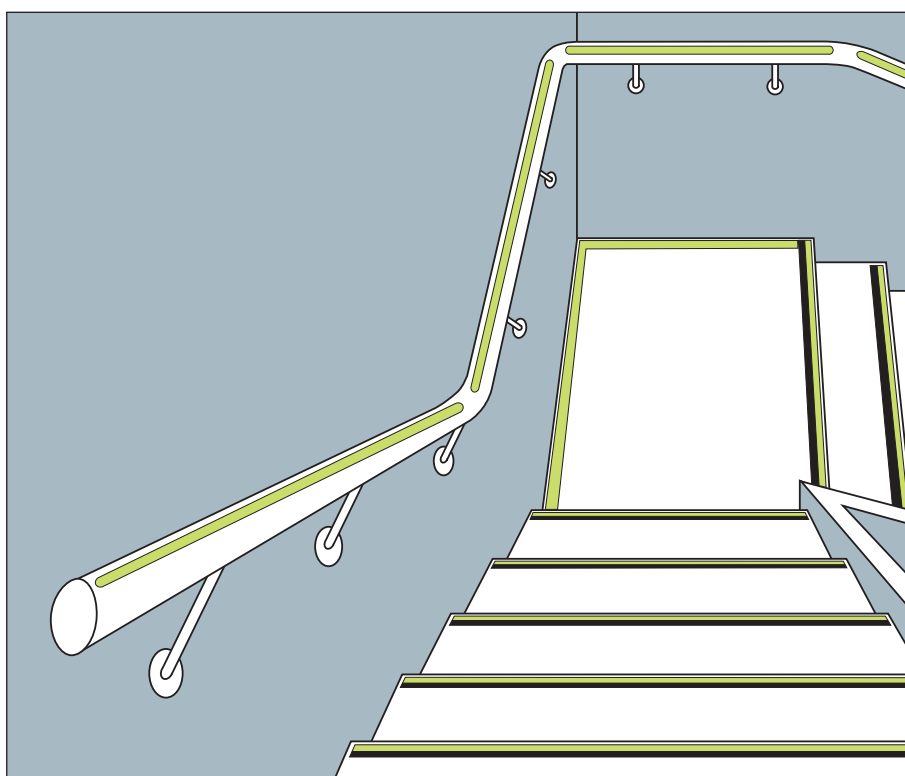
ECOGLO INTERNATIONAL LIMITED

Compliance Guide

for Ecoglo Photoluminescent Markings to meet the requirements of

2015 IFC/IBC SECTION 1025 LUMINOUS EGRESS PATH MARKINGS

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



VISIBLY BETTER

Introduction

This document is aimed at those wishing to design an IFC/IBC compliant photoluminescent path marking system and outlines:

- Where Ecoglo egress 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.

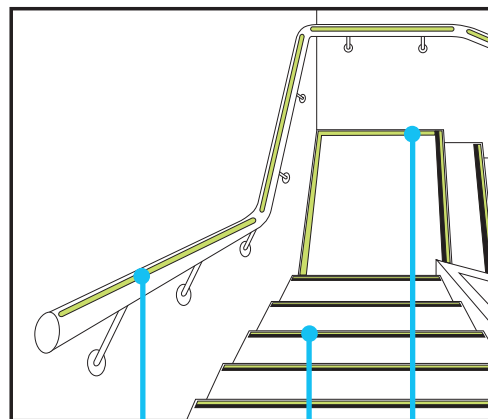
Ecoglo's product range includes step edge contrast, guidance strips, handrail markers, door markers, as well as exit signage. Please note that for Ecoglo markings to be appropriate there needs to be sufficient charging light on the markings as specified in 1025.5 (see p.4).

1025.1 General

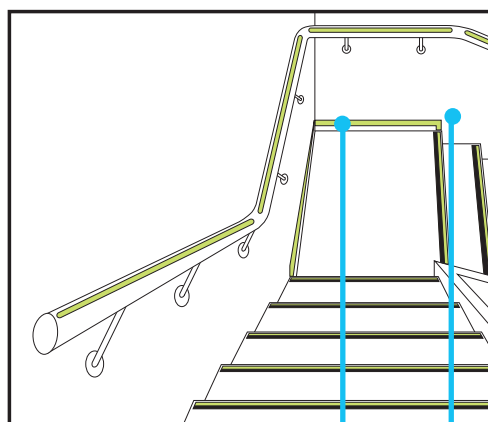
Where approved luminous egress path markings delineating the exit path are required in high-rise buildings of Group A, B, E, I, M and

R-1 occupancies, this guide details how Ecoglo photoluminescent markings shall be installed in accordance with Sections 1025.1 through 1025.5.

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.



HANDRAIL MARKING
STEP MARKINGS
FLOOR MOUNTED PERIMETER DEMARCATION LINE



WALL MOUNTED PERIMETER
DEMARCATON LINE
DROPS TO LEADING
EDGE OF LANDING

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 1 inch (25 mm) and a maximum width of 2 inches (51 mm). The leading edge of the stripe shall be placed not more than ½ inch (12.7 mm) from the leading edge of the step and the stripe shall not overlap the leading edge of the step by more than ½ inch (12.7 mm) down the vertical face of the step.

EXCEPTION: All outlining stripes listed in accordance with UL 1994 meet IFC requirements and are NOT REQUIRED to have a minimum horizontal width of 1 inch (25mm).

1025.2.1 Steps

Recommended Ecoglo Products

E14-075 Step Edge Contrast
E2-071 Step Edge Contrast
E4-073 Step Edge Contrast
F14-175 Step Nosing
F4-171 Step Nosing
F2-003 Step Nosing
G6-003 Guidance Strip

1025.2.2 Landings

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

1025.2.2 Landings

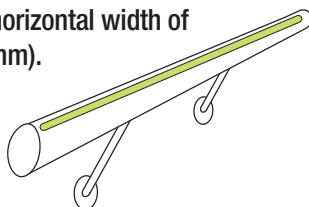
Recommended Ecoglo products

E14-075 Step Edge Contrast
E2-071 Step Edge Contrast
E4-073 Step Edge Contrast
F14-175 Step Nosing
F4-171 Step Nosing
F2-003 Step Nosing
G6-003 Guidance Strip

1025.2.3 Handrails

Handrails and handrail extensions shall be marked with a solid and continuous stripe having a minimum width of 1 inch (25 mm). 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 4 inches (102 mm).

EXCEPTION: All outlining stripes listed in accordance with UL 1994 meet IFC requirements and are NOT REQUIRED to have a minimum horizontal width of 1 inch (25mm).



1025.2.3 Handrails

Recommended Ecoglo Products

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

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 1 to 2 inches (25 mm to 51 mm) wide with interruptions not exceeding 4 inches (102 mm).

EXCEPTION: All outlining stripes listed in accordance with UL 1994 meet IFC requirements and are NOT REQUIRED to have a minimum horizontal width of 1 inch (25mm).

1025.2.4.1 Floor-Mounted Demarcation Lines

Perimeter demarcation lines shall be placed within 4 inches (102 mm) of the wall and shall extend to within 2 inches (51 mm) 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 4 inches (102 mm) above the finished floor. At the top or bottom of the stairs, demarcation lines shall drop vertically to the floor within 2 inches (51 mm) 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.

1025.2.4 Perimeter Demarcation Lines

Recommended Ecoglo Products

G3-001 Guidance Strip
G6-003 Guidance Strip

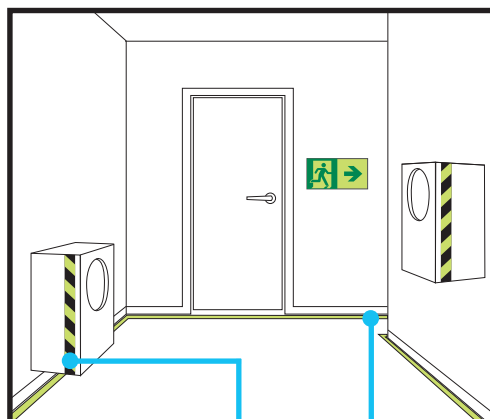
1025.2.5 Obstacles

Obstacles at or below 6 feet 6 inches (1981 mm) in height and projecting more than 4 inches (102 mm) into the egress path shall be outlined with markings not less than 1 inch (25 mm) in width comprised of a pattern of alternating equal bands, of luminous material and black, with the alternating bands not more than 2 inches (51 mm) thick and angled at 45 degrees (0.79 rad). 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.

1025.2.5 Obstacles

Recommended Products

HZ-TAPE Photoluminescent Hazard Tape
N.B. The above product is not heat cured or aluminium based.



MARKING OF OBSTACLES
FLOOR OR WALL MOUNTED DEMARCATION LINES

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 a minimum of 4 inches (102 mm) in height and shall be mounted on the door, centered horizontally, with the top of the symbol no higher than 18 inches (457 mm) above the finished floor.



1025.2.6.1 Emergency Exit Symbol

Recommended 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).

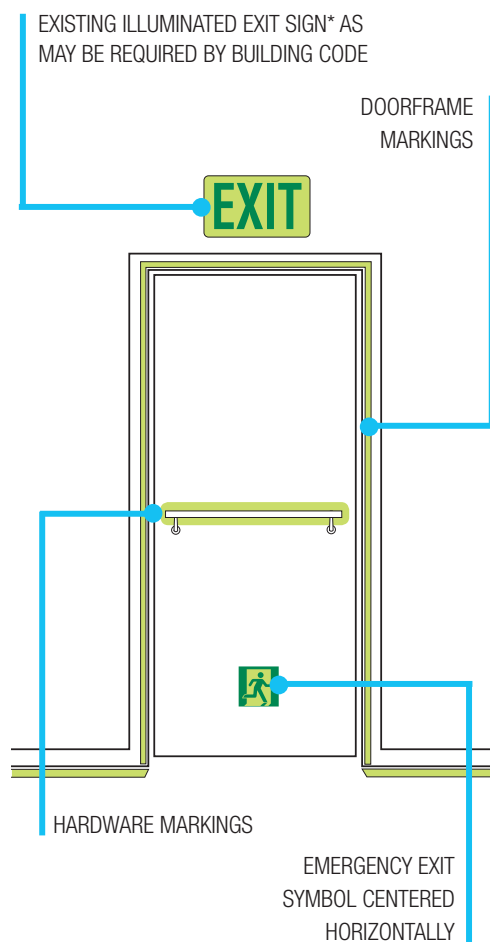
1025.2.6.2 Door Hardware Markings

Door hardware shall be marked with no less than 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 1 inch (25 mm) wide for the entire length of the actuating bar or touchpad.

1025.2.6.2 Door Hardware Markings

Recommended Ecoglo Products

G6-003 Guidance Strip
DHM1010 Door Handle Marker



1025.2.6.3 Door Frame Markings

The top and sides of the door frame shall be marked with a solid and continuous 1 inch to 2 inch (25 mm to 51 mm) wide stripe. Where the door molding 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.

1025.2.6.3 Door Frame Markings

Recommended Ecoglo Products
G6-003 Guidance Strip

1025.3 Uniformity

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

1025.4 Self-Luminous and Photoluminescent

Photoluminescent material is suitable for luminous egress path markings provided that it also complies with either of the following standards:

1. UL 1994; or
2. ASTM E 2072, except that the charging source shall be 1 footcandle (11 lux) 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.

1025.4 Self-Luminous and Photoluminescent

Recommended Ecoglo Products

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

1025.5 Illumination

Where photoluminescent exit path markings are installed, they shall be provided with a minimum of one footcandle (11 lux) of illumination for at least 60 minutes prior to periods when the building is occupied and continuously during the building occupancy.

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

* 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 IFC/IBC Section 1013 Exit Signs). Ecoglo can also make exit signs to meet regional/international text or graphics requirements.

Ongoing Inspections

The following inspections are recommended to ensure ongoing compliance with 2015 IFC/IBC Section 1025 Luminous Egress 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 IFC/IBC Section 1025 Luminous Egress Path Markings

1025.2.1 Steps

- E14-075 Step Edge Contrast
- E2-071 Step Edge Contrast
- E4-073 Step Edge Contrast
- F14-175 Step Nosing
- F4-171 Step Nosing
- F2-003 Step Nosing
- G6-003 Guidance Strip

1025.2.2 Landings

- E14-075 Step Edge Contrast
- E2-071 Step Edge Contrast
- E4-073 Step Edge Contrast
- F14-175 Step Nosing
- F4-171 Step Nosing
- F2-003 Step Nosing
- G6-003 Guidance Strip

1025.2.3 Handrails

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

1025.2.4 Perimeter Demarcation Lines

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

1025.2.5 Obstacles

- HZ-TAPE Photoluminescent Hazard Tape

1025.2.6.1 Emergency Exit Symbol

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

1025.2.6.2 Door Hardware Markings

- G6-003 Guidance Strip
- DHM1010 Door Handle Marker

1025.2.6.3 Door Frame Markings

- G6-003 Guidance Strip

1025.4 Self-Luminous and Photoluminescent

- 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

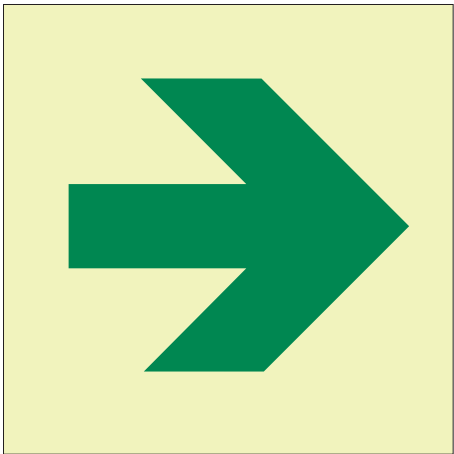
SUPPLY
The product is available in the following size. (The sign can be used alone or in combination with Ecoglo directional arrow signs.)

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.

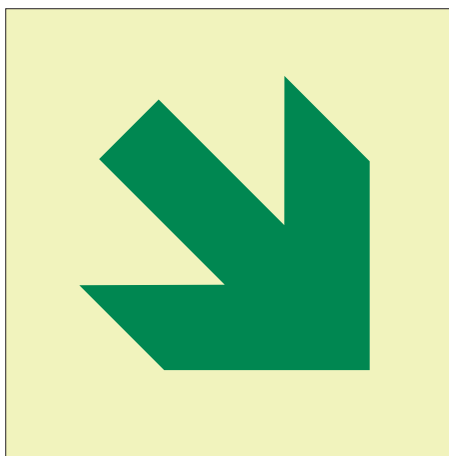
INSTALLATION

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.

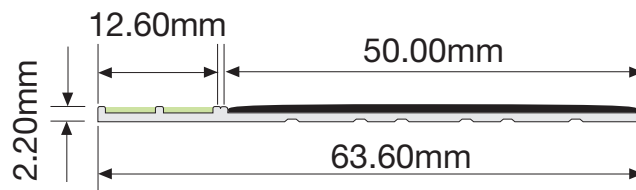
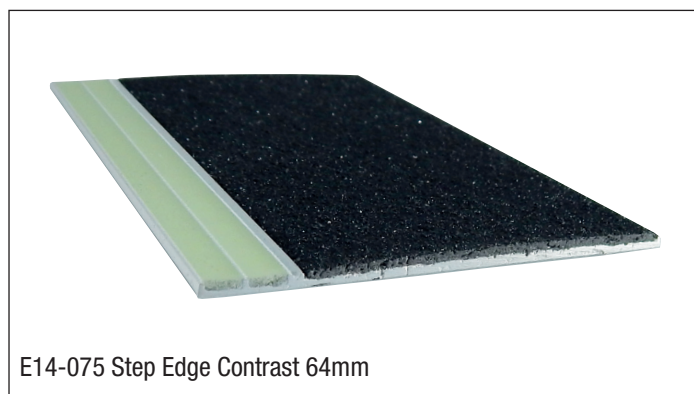
INSTALLATION

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 E14-075 Step Edge Contrast is designed to ensure visibility of steps in escape routes for compliance with International Fire Code (IFC), and any performance based building codes. 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 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 and 3.06 metre lengths.

COMPOSITION

Ecoglo E14-075 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 E14-075 Step Edge Contrast can be surface mounted on all smooth surfaces. Outdoors the E14-075 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).

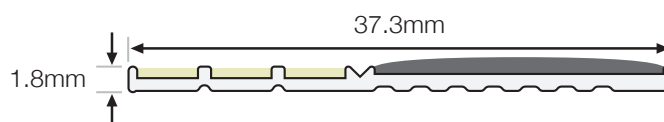
E14-075 For polyurethane adhesive fixing
E14-075P Punched for screw fixing

PRODUCT CODE	PRODUCT DESCRIPTION	PRODUCT LENGTH
E14-075-600	Step Edge Contrast 64mm	600mm
E14-075-700	Step Edge Contrast 64mm	700mm
E14-075-800	Step Edge Contrast 64mm	800mm
E14-075-900	Step Edge Contrast 64mm	900mm
E14-075-1000	Step Edge Contrast 64mm	1000mm
E14-075-1100	Step Edge Contrast 64mm	1100mm
E14-075-1200	Step Edge Contrast 64mm	1200mm
E14-075-1300	Step Edge Contrast 64mm	1300mm
E14-075-1400	Step Edge Contrast 64mm	1400mm
E14-075-1500	Step Edge Contrast 64mm	1500mm

Contact

Ecoglo International Limited

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



The E2-071 Step Edge Contrast is designed to ensure visibility of steps in escape routes for compliance with International Fire Code (IFC), and any performance based building codes. 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 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 and 3.06 metre lengths.

COMPOSITION

Ecoglo E2-071 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 E2-071 Step Edge Contrast can be surface mounted on all smooth surfaces. Outdoors the E2-071 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).

E2-071 For polyurethane adhesive fixing
E2-071P Punched for screw fixing

PRODUCT CODE	PRODUCT DESCRIPTION	PRODUCT LENGTH
E2-071-600	Step Edge Contrast 37mm	600mm
E2-071-700	Step Edge Contrast 37mm	700mm
E2-071-800	Step Edge Contrast 37mm	800mm
E2-071-900	Step Edge Contrast 37mm	900mm
E2-071-1000	Step Edge Contrast 37mm	1000mm
E2-071-1100	Step Edge Contrast 37mm	1100mm
E2-071-1200	Step Edge Contrast 37mm	1200mm
E2-071-1300	Step Edge Contrast 37mm	1300mm
E2-071-1400	Step Edge Contrast 37mm	1400mm
E2-071-1500	Step Edge Contrast 37mm	1500mm

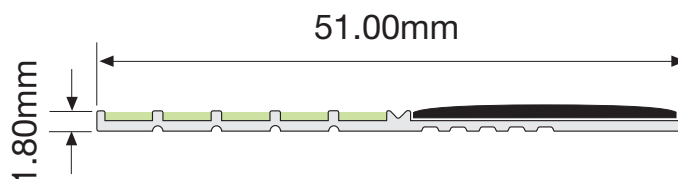
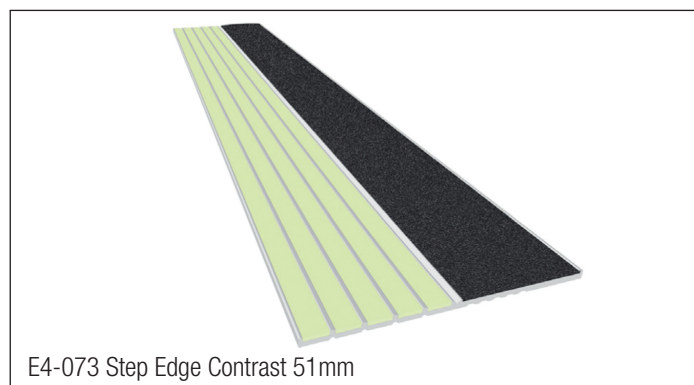
Contact

Ecoglo International Limited

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

Product Data Sheet - Step Edge Contrast E4-073

2018 V2



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

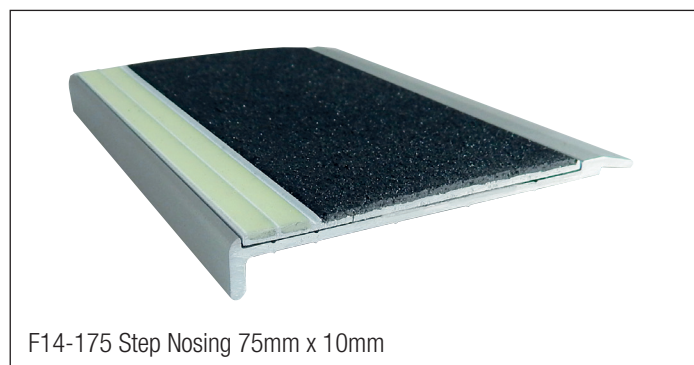
Contact

Ecoglo International Limited

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

Product Data Sheet - Step Nosing F14-175

2018 V2



The F14-175 Step Nosing is designed to ensure visibility of steps in escape routes for compliance with International Fire Code (IFC), and any performance based building codes. 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 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. 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

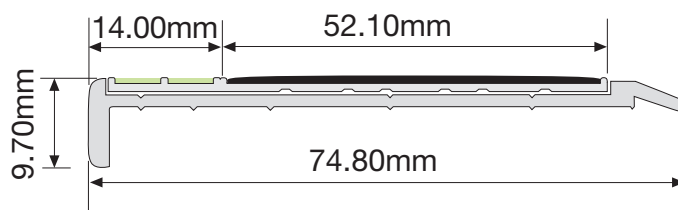
SUPPLY

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.

COMPOSITION

The F14-175 Step Nosing profile consists of 6063T6 aluminium extrusion, anodized (natural/silver colour) to 20 microns thickness.

Ecoglo E14-075 Step Edge Contrast is adhesively fixed into the extrusion. The high visibility E14-075 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

The F14-175 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
F14-175-600	Step Nosing 75mm x 10mm	600mm
F14-175-700	Step Nosing 75mm x 10mm	700mm
F14-175-800	Step Nosing 75mm x 10mm	800mm
F14-175-900	Step Nosing 75mm x 10mm	900mm
F14-175-1000	Step Nosing 75mm x 10mm	1000mm
F14-175-1100	Step Nosing 75mm x 10mm	1100mm
F14-175-1200	Step Nosing 75mm x 10mm	1200mm
F14-175-1300	Step Nosing 75mm x 10mm	1300mm
F14-175-1400	Step Nosing 75mm x 10mm	1400mm
F14-175-1500	Step Nosing 75mm x 10mm	1500mm

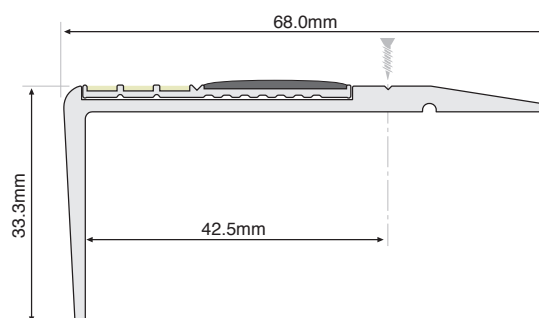
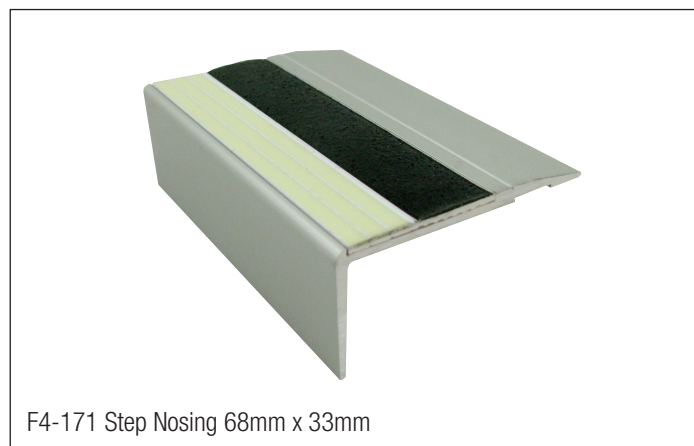
Contact

Ecoglo International Limited

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

Product Data Sheet - Step Nosing F4-171

2018 V2



The F4-171 Step Nosing is designed to ensure visibility of steps in escape routes for compliance with International Fire Code (IFC), and any performance based building codes. 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 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. 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.

COMPOSITION

The F4-171 Step Nosing profile consists of 6060T5 aluminium extrusion, anodized (natural/silver colour) to 20 microns thickness.

Ecoglo E2-071 Step Edge Contrast is adhesively fixed into the extrusion. The high visibility E2-071 is manufactured from extruded 6060T5 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

The F4-171 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
F4-171-600	Step Nosing 68mm x 33mm	600mm
F4-171-700	Step Nosing 68mm x 33mm	700mm
F4-171-800	Step Nosing 68mm x 33mm	800mm
F4-171-900	Step Nosing 68mm x 33mm	900mm
F4-171-1000	Step Nosing 68mm x 33mm	1000mm
F4-171-1100	Step Nosing 68mm x 33mm	1100mm
F4-171-1200	Step Nosing 68mm x 33mm	1200mm
F4-171-1300	Step Nosing 68mm x 33mm	1300mm
F4-171-1400	Step Nosing 68mm x 33mm	1400mm
F4-171-1500	Step Nosing 68mm x 33mm	1500mm

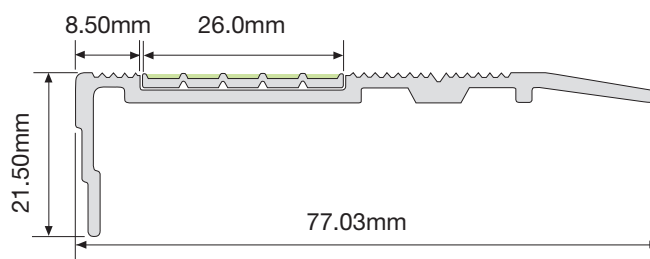
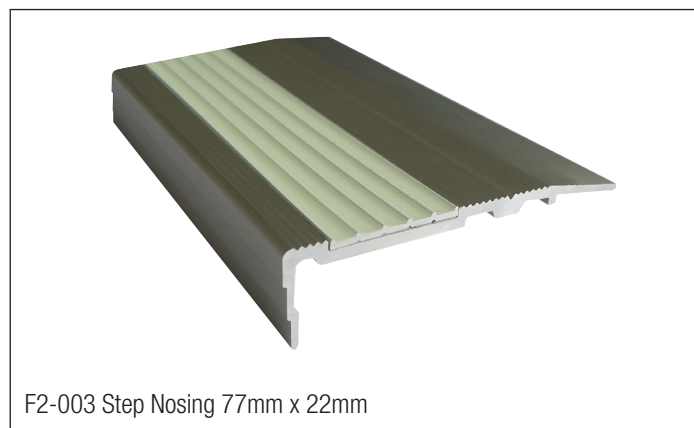
Contact

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

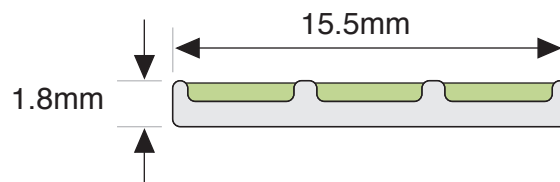
Email: info@ecoglo.com Web: www.ecoglo.com



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

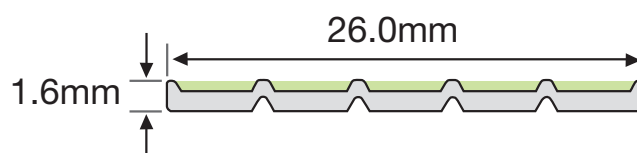
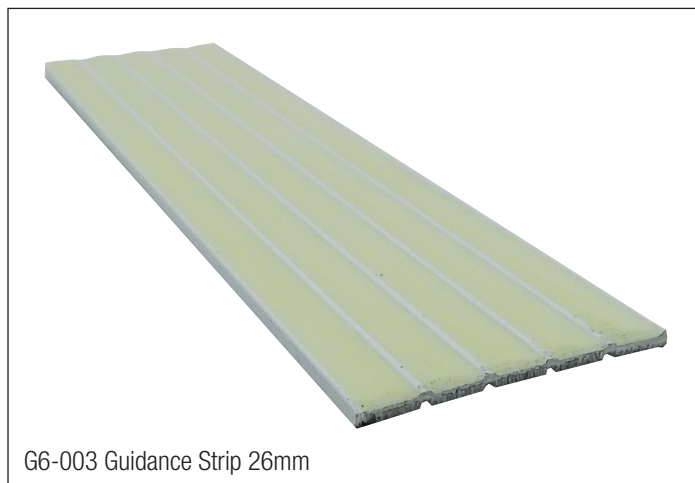
Contact

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

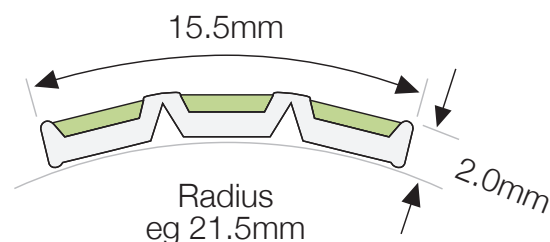
Contact

Ecoglo International Limited

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

Product Data Sheet - Handrail Marker H3-001

2018 V2



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.

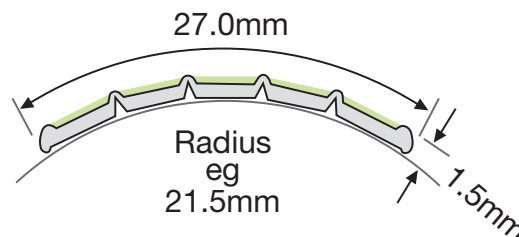
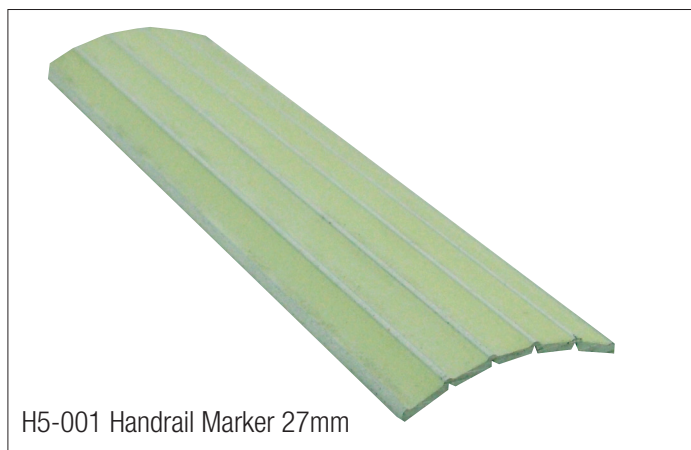
H3-001T-1000 Release tape pre-fitted

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.

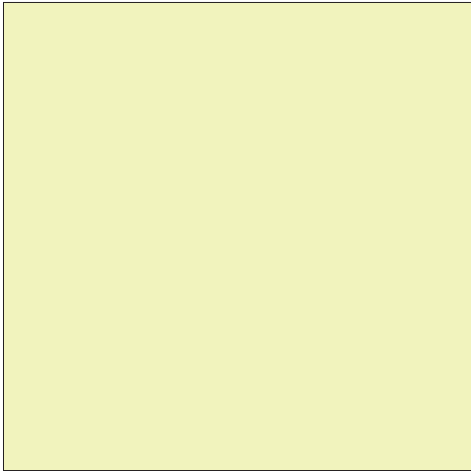
H5-001T-1000 Release tape pre-fitted

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 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.

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.

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.

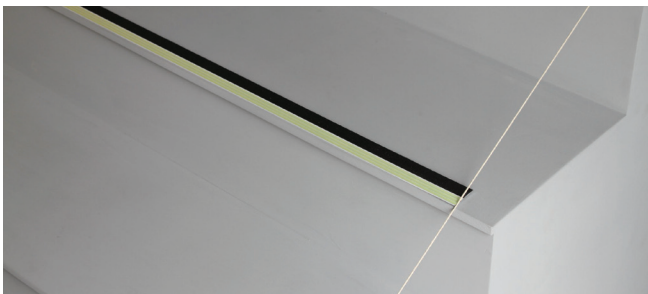


Note: Installation onto Concrete Surfaces

- 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

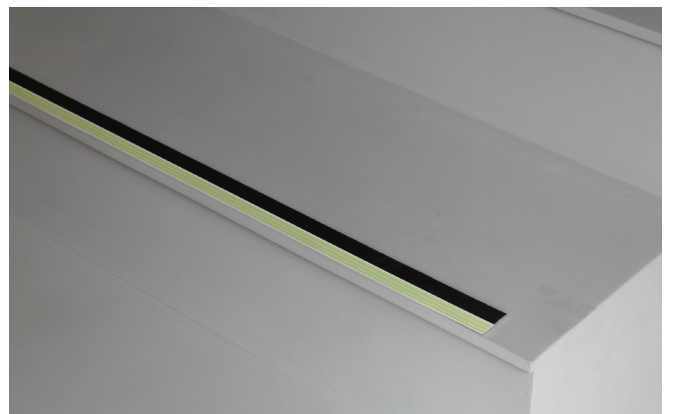
E4 Series - 25 metres per 600ml

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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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.



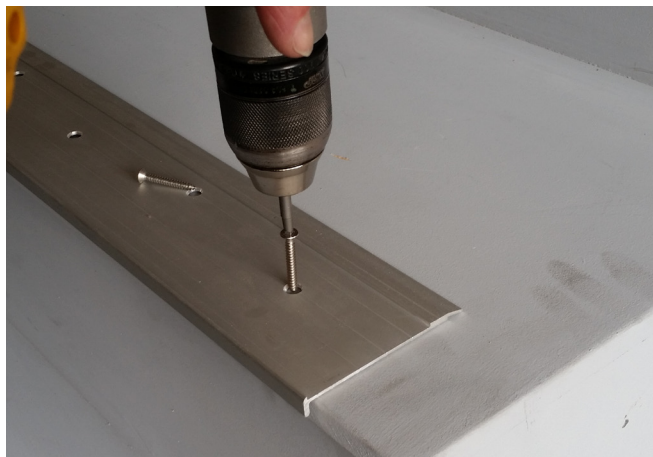
5. Applying Adhesive

- 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.



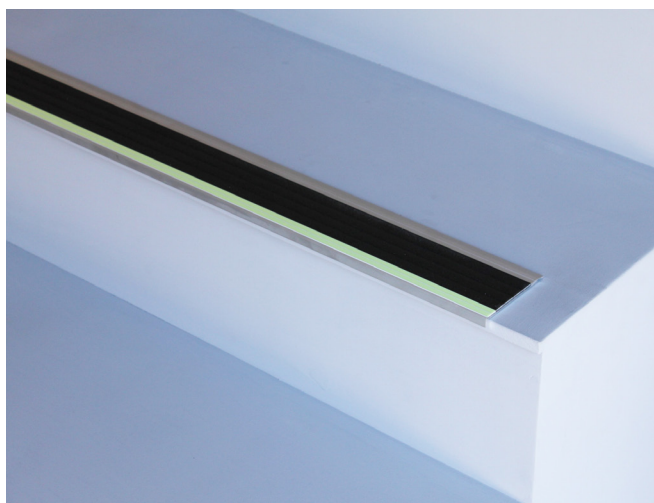
8. Insert strip into the nosing

- 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



Step Nosing - F Series

Concrete and Timber

V18.1

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.

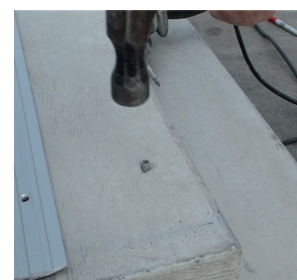
3. Locating Holes for Fixers (for Timber skip to step 5)

- 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).

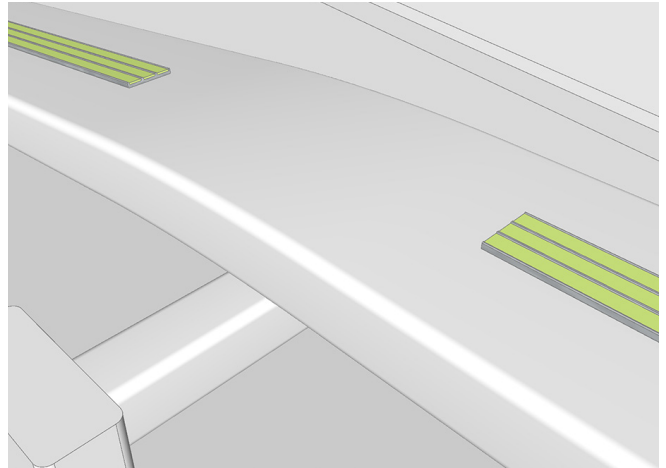
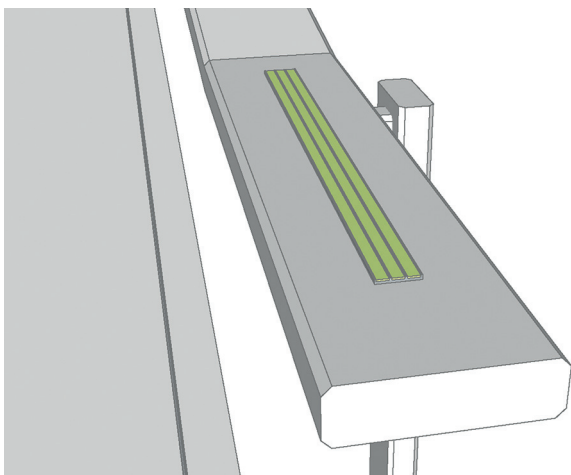
***Ecoglo G6-003 guidance strips are suitable for use on indoor steps which are not subject to daily use or heavy foot traffic. For outdoor steps, or steps which will be subjected to frequent or heavy foot traffic, visit www.ecoglo.com or contact Ecoglo at info@ecoglo.com for information on more suitable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

1. Preparation of Surface

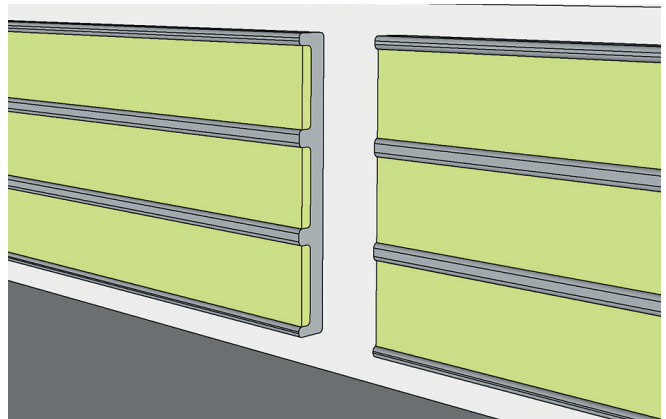
- Thoroughly clean the surface with an industrial strength cleaner if necessary.
- Remove any loose paint or sealant and then allow the surface to dry.
- If the surface has been painted or coated, check that adhesive is compatible with the paint or seal coating.
IF IN DOUBT REMOVE COATING.
- The tape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



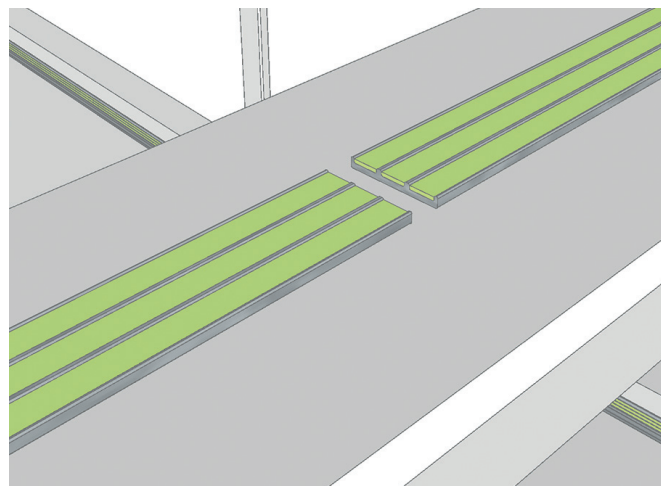
Do not bend guidance strips over bends. Set the strip 50mm from the bend.



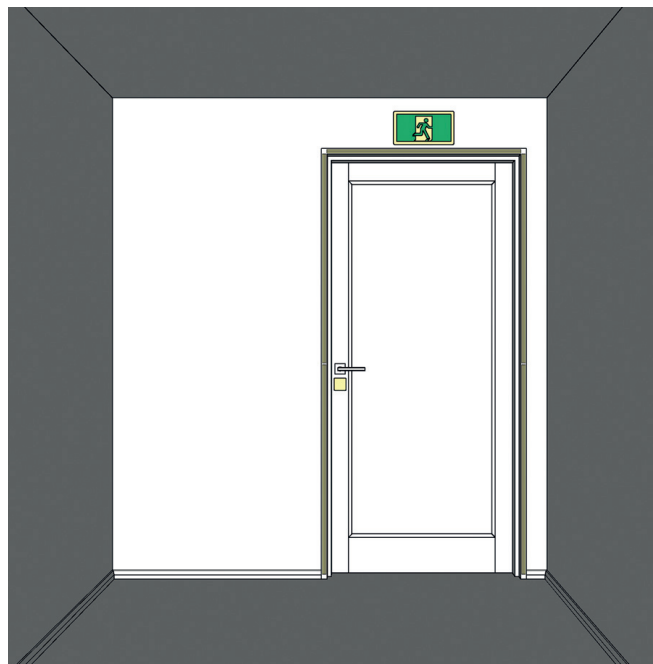
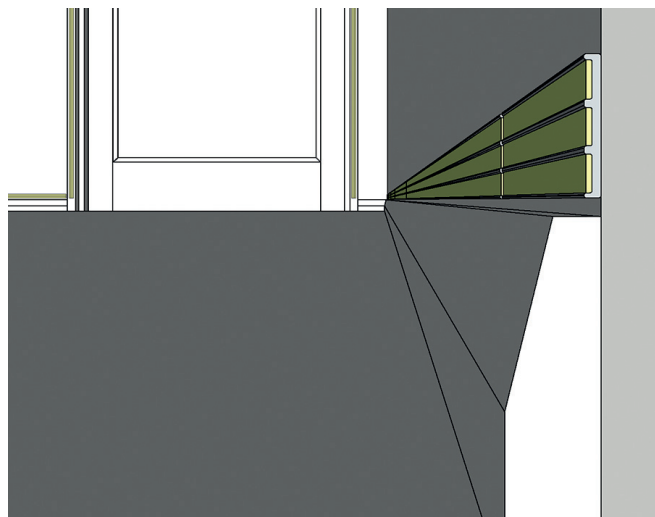
Where strips are to be butted together, there must always be a 3mm expansion gap between them. This allows for expansion and contraction between the Ecoglo strip and the building surface.

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.

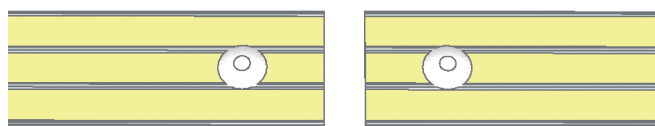


Guidance strip can be used to mark corridors, lobbies and indoor lengths of path and can be mounted either on the floor within 100mm of the wall, or on the wall within 100mm of the floor. Gaps of 3mm must be placed between strips.



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



Handrail - H Series

Round Handrails

V18.1

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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