



Ecoglo International Ltd
77 Kingsley Street, Christchurch
New Zealand www.ecoglo.co.nz



Emergency Visibility Design Report

This report is provided for the sole use of Three Blokes Limited and the relevant Building Consent Authority, the Auckland Council.

This report is not intended for use by other parties and should not be relied on by others as it may not contain sufficient information for them to rely on its findings.

This report is based on plans and other information provided by Ecoglo's client.

Ecoglo International Ltd accepts no liability for inaccuracies in third party information used as part of this report. Our professional services are performed using a degree of care and expertise normally exercised by reputable professional consultants in similar circumstances. No other warranties, expressed or implied, are made regarding the content of this report.

The scope of this engagement is to carry out a detailed analysis of the provided documentation and formulate an appropriate emergency visibility design to meet the requirements of Clause F6 (including exit signage as specified in Clause F8) of the Building Code.

Design Overview

Visibility of the changes in level on the escape routes.

Exit signs to identify the escape routes.

Location: 362 Matakana Valley Road, Matakana

Legal Description: Section 1 SO 400726, PT Allotment Lot 51, Parish of Matakana

Owner / Developer: Three Blokes Limited

Design Reference: 2022K012

Revision: R0

Date: 14 February 2023

Statements of Co-ordination

This document is to be provided to the Building Consent Authority and is intended to accompany the documents submitted in the building consent application.

Documents reviewed for emergency visibility and exit signage requirements

Author	Document Title	Reference	Drawing	Revision	Date
Enlightened Solutions	Fire Report - Market Shed 1 and Shed 2	221490		2	25/11/22
Campbell Registered Architects Ltd	Shed 1 Floor Plan Shed 2 Floor Plan	21015	102 114	C	21/11/22
G Light	Lighting Layout - 362 Matakana Road, Matakana	2022-11-LC-254	1 to 3 of 3	A	15/11/22

I believe on reasonable grounds that the relevant elements of the above document(s) and associated plans have been incorporated into the design of the emergency visibility system as described in this report.

The attached marked-up plans need to be reviewed by the author of the above document(s) and those responsible for the architectural plans and electrical plans to ensure they are co-ordinated with the final "for-consent" documents in relation to exit signs, step nosings, Ecoglo markings and emergency light fittings.



Note that no electrical emergency light fittings or battery back-up electrical exit signs are required.

Colour temperature of charging lights and light switching controls (common switches) need to be co-ordinated by those responsible for the architectural plans and/or the electrical plans, to ensure lights and light switching controls that affect the charging of Ecoglo markings and S20- exit signs are co-ordinated in the final “for-consent” documents.

Note that the downstairs area of Units 1 and 1a, and Units 8 and 8a will need to have lights on at all times of occupancy: lights are to be wired to the same circuit

Design Limitations

This design is limited to meeting the requirements of the NZ Building Code Clause F6 – Visibility in Escape Routes. Clause F6 requires specified features in escape routes to be reasonably visible during failure of the main lighting. Dangerous machinery, hazardous processes, furniture, and most fittings are normally NOT specified features as defined in the NZ Building Code. Therefore, this design does not attempt to make dangerous machinery, hazardous processes, furniture, or fittings (that are not specified features) reasonably visible.

The scope of this design is limited to:

Escape routes including exit signage at 362 Matakana Valley Road, Matakana in the locations prescribed in the document(s) referred to in the “Statements of Co-ordination”, above.

If the as-built construction, landscaping, or internal fit-out differs from the plans, or if there are changes in level inside or outside the building on the way to a safe place that are not shown on the plans, this design may not be sufficient to meet NZBC Clauses F6 (visibility in escape routes) or F8 (exit signs).

The following information is included to provide reasonable grounds that the design meets F6 and F8 of the New Zealand Building Code:

- **System Design and Plan**
- **Compliance Schedule**
- **Producer Statement – Design**

System Design

This emergency visibility system is designed to meet the performance requirements of the New Zealand Building Code, Clause F6 Visibility in Escape Routes. Specifically: the escape routes at changes in level, and exit signs to identify the escape routes have been marked up in the plans titled “2022K012 F6 Plan R0” (attached), with appropriate Ecoglo components, so that the specified features will be reasonably visible in the event of failure of the main lighting and be clearly visible under all conditions of foreseeable use.

All exit signs and path finding products must be installed as shown on the drawings.

Technical justification for the emergency visibility design is provided in the Ecoglo documents “*Technical Justification for Ecoglo Markings v19.1*”, the “*Technical Justification for Ecoglo Photoluminescent Exit Signs v19.1*” (available from www.ecoglo.co.nz), and referenced against NZBC F6 and F8.



The building's Clause F6 Risk Group aligns with Risk Group C and shall have illumination of the required areas for not less than 30 minutes duration to facilitate evacuation.

Charging Illumination

The artificial lighting required to ensure the "S20-" exit signs are maintained in a charged state whenever the building is occupied consists of the electrical luminaires (with a colour temperature of at least 4000K), that are within 4m of each "S20-" exit sign.

The layout and use of the building are suitable for ensuring that the Ecoglo path marking products and "S20-" exit signs will be illuminated by daylight or electrical lighting (controlled by the occupants) when needed as long as the lighting in the Units 1, 1a, 8, and 8a (shown in the plan) are switched on whenever the unit is occupied.

The following light switching controls in Units 1, 1a, 8, and 8a will be required:

Lights will be on common switches so that when lights are switched on in an occupied space all Ecoglo components in all escape routes from the occupied space are lit.

I believe on reasonable grounds that the Ecoglo path marking products inside the structure will be sufficiently charged from daylight or electrical lighting when the building is occupied to ensure they remain visible for at least 30 minutes after the normal lighting has failed.

I believe on reasonable grounds that the face of the Ecoglo "S20-" exit signs inside the structure can be sufficiently charged from daylight or artificial light sources when the building is occupied to ensure the signs remain visible for at least 30 minutes after the normal lighting has failed.

Exit signs for F8 compliance

Exit signs are required to be installed to indicate the escape routes. Signs mounted above exit doors shall be installed no higher than 600mm above the door leaf.

General information

Attached are the Product Technical Statements and the information sheets for the specified Ecoglo photoluminescent products.

Wherever Ecoglo path marking products are installed, the escape routes must be kept clear always.



Important information

Relevant consent documents are to be sent to *engineer@ecoglo.com* prior to installation.

Installation information

The installer of the Ecoglo components must complete the Ecoglo Construction PS3 form to confirm that all components are installed in accordance with Ecoglo's installation instructions.

To ensure on reasonable grounds that the completed installation is compliant with the relevant clauses of the NZ Building Code, the complete system detailed on the attached drawings needs to be installed in accordance with the installation instructions, and the charging illumination described above needs to be provided. It is recommended that PS4 documentation (or PS3 documentation from an Ecoglo-approved installer) confirming this is filed with the relevant Building Consent Authority or Territorial Authority.

If requested, Ecoglo will provide PS4 documentation following suitable completion of the building works in accordance with this design.



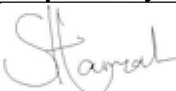
Compliance Schedule Information

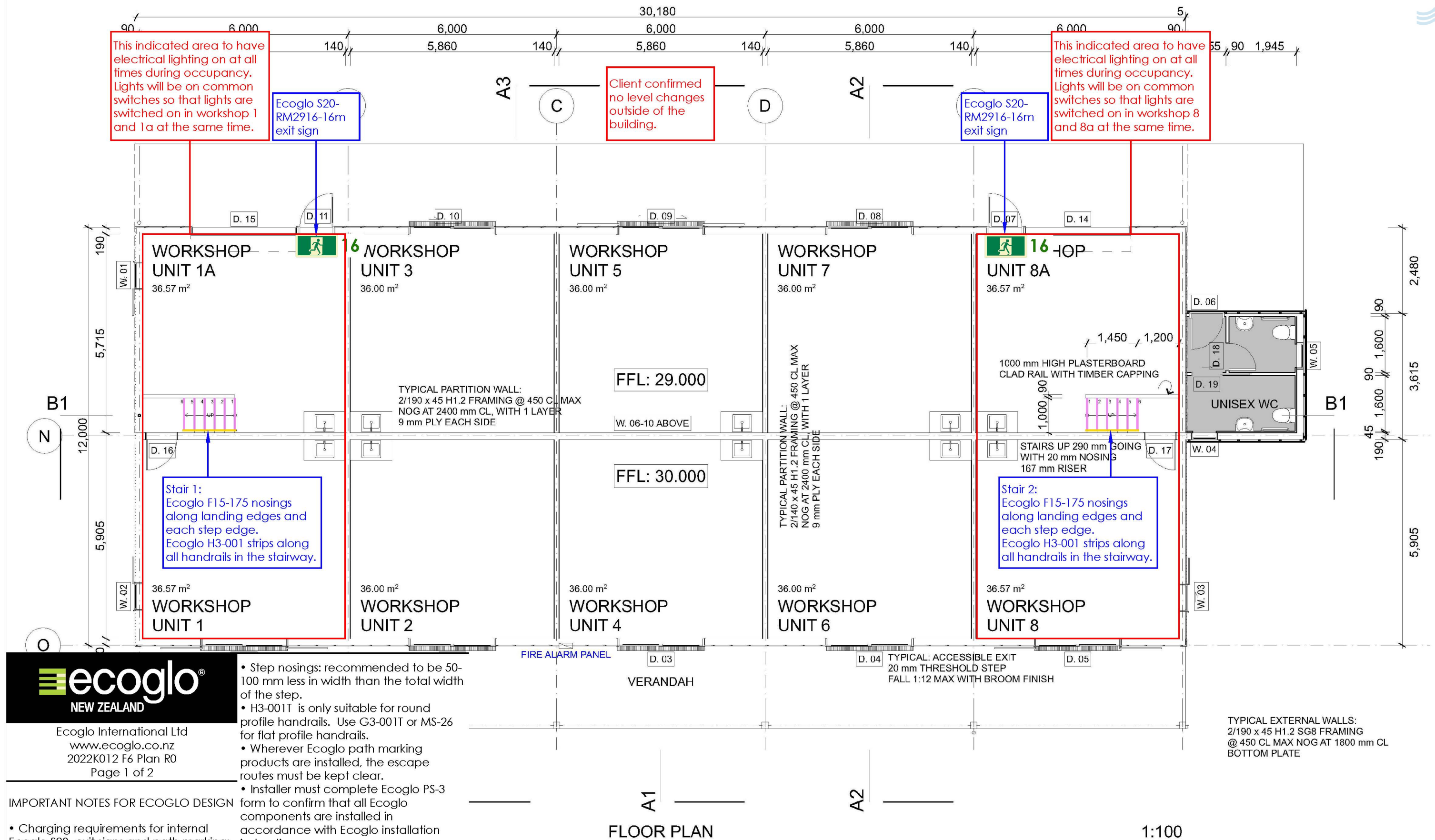
To comply with NZBC Clause B2, the following information needs to be provided in a Compliance Schedule for the building.

Specified System	Other fire safety systems or features
Description:	15(d) Signs for communicating information intended to facilitate evacuation
Type:	Ecoglo photoluminescent exit signage and photoluminescent escape path marking
Make/Model:	Make: Ecoglo. Models: See emergency visibility and exit signage plan "2022K012 F6 Plan R0".
Location:	Visibility of the changes in level on the escape routes. Exit signs to identify the escape routes. See emergency visibility and exit signage plan "2022K012 F6 Plan R0" for locations.
Performance Standard:	Photoluminescent exit signage: New Zealand Building Code Clause F8.3.1 F8.3.3 and F8/AS1 4.5.4 January 2017. Photoluminescent escape path marking: New Zealand Building Code Clause F6.3.1. January 2017 Performance Standard: Ecoglo photoluminescent escape path markings shall, in the event of a power failure, continue to provide a minimum luminance of 5 mcd/m ² for the duration prescribed in NZBC Clause F6 whenever the building is occupied. (At 5mcd/m ² , Ecoglo photoluminescent escape path markings have been independently tested in accordance with UL1994 for 10 metre visibility to meet NZBC Clause F6.3.1)
Inspection Procedure:	Inspection should be carried out to check the following: • 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, wallpaper, paint or other materials. • All products mark a clear path and have not been obstructed by physical hazards (furniture, trolleys, partitions, machinery, vehicles, products, storage, racking, etc) • All products can be used to provide clear escape path marking and there has been no change to the configuration of the building which renders the escape path unusable. • All lights within 4m of internal Ecoglo S20- exit signs and steps have been checked that the positions have not altered from design. • All lights within 4m of internal Ecoglo S20- exit signs and steps are in working order and clean. • All light switching controls are operational as per the design. • The lights are on common switches so when the lights in Units 1, 1a, 8, and 8a are switched on, the lights in the entire Unit are also turned on. Monthly inspections are to be carried out by the owner or their appointed agent. Annual inspections are to be carried out by an Independent Qualified Person. For specific information relating to periodic inspection and maintenance procedures for photoluminescent exit signs and path markings, refer to the Photoluminescent Lighting Council Standard PLCS 102(NZ) Passive Photoluminescent Exit Signs and Path Markings: Inspection and Maintenance.



Interface Testing:	The system is not interfaced with other specified systems listed in this compliance schedule and does not require additional testing or inspection for an interface.
Maintenance Procedure:	Planned preventative maintenance and responsive maintenance should be carried out to ensure the following: • 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, wallpaper, paint or other materials. • All products mark a clear path and have not been obstructed by physical hazards (furniture, trolleys, partitions, machinery, vehicles, products, storage, racking, etc) • All products can be used to provide clear escape path marking and there has been no change to the configuration of the building which renders the escape path unusable. • All lights within 4m of internal Ecoglo S20- exit signs and steps have been checked that the positions have not altered from design. • All lights within 4m of internal Ecoglo S20- exit signs and steps are in working order and clean. • All light switching controls are operational as per the design. • The lights are on common switches so when the lights in Units 1, 1a, 8, and 8a are switched on, the lights in the entire Unit are also turned on. Monthly maintenance is to be carried out by the owner or their appointed agent. Photoluminescent exit signs and escape path markings should be replaced after 15 years when installed outdoors, and replaced after 30 years when installed indoors, unless evidence is provided to show ongoing compliance. For specific information relating to periodic inspection and maintenance procedures for photoluminescent exit signs and path markings, refer to the Photoluminescent Lighting Council Standard PLCS 102(NZ) Passive Photoluminescent Exit Signs and Path Markings: Inspection and Maintenance.
Reporting:	All (Hard/Soft Copy) records and written reports must be kept and maintained confirming inspections and maintenance, as applicable to this Specified System, have been carried out by the individuals responsible for inspecting and maintaining the systems or features (including but not limited to Owners, Service Technicians and Independent Qualified Persons) for a period of 2 years.

Prepared By		Reviewed By	
	Sarah Hamzah		Delwyn Ralston



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IMPORTANT NOTES FOR ECOGLO DESIGN

- Charging requirements for internal Ecoglo S20- exit signs and path marking: Lights within 4m of all internal S20- exit signs and path markings must be operational and clean. Internal S20- exit signs and path markings must be illuminated by daylight or electrical lighting at all times of occupancy.
- If F15-175 does not suit the step profile, an equivalent Ecoglo product can be substituted if required.

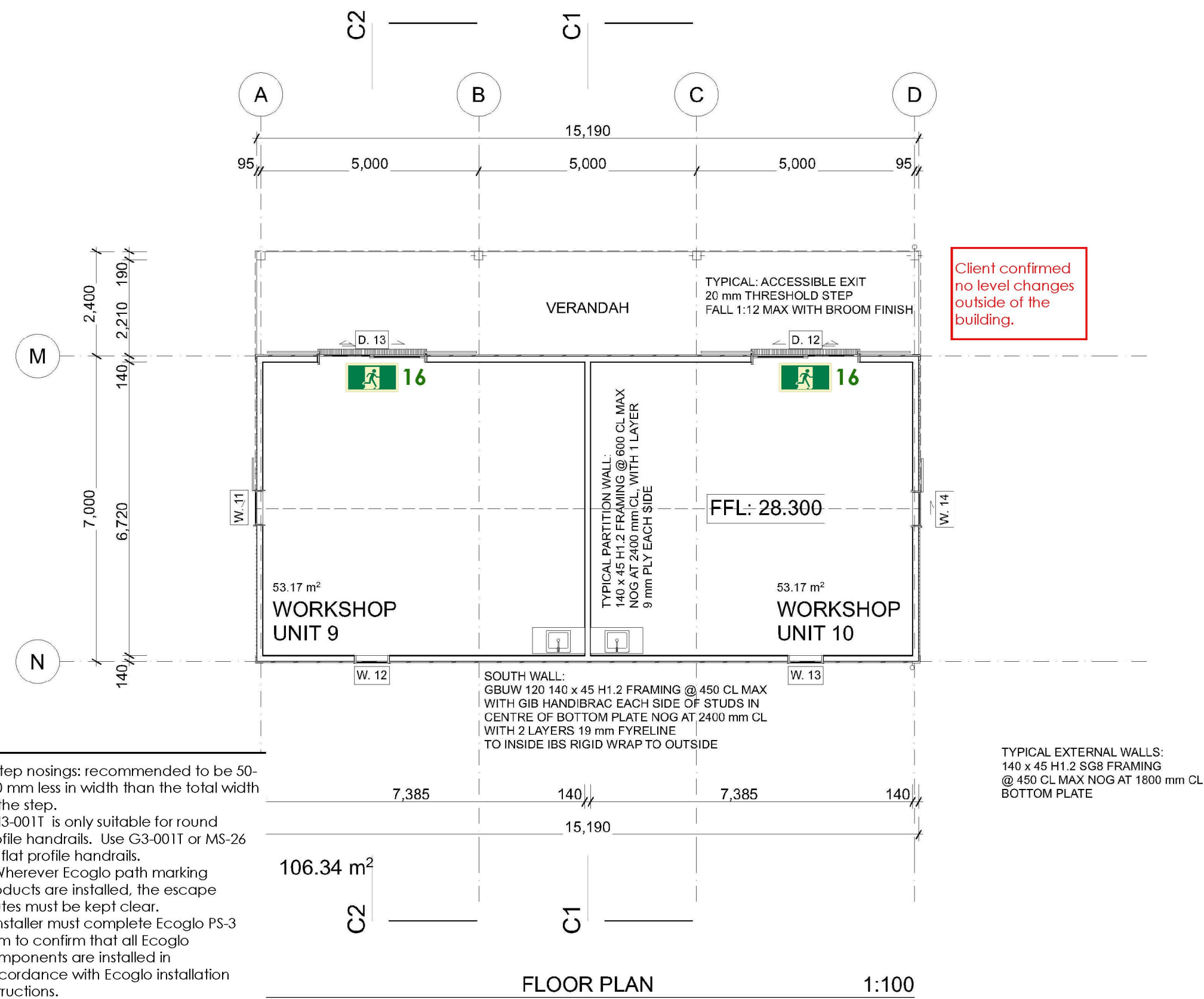
- Step nosings: recommended to be 50-100 mm less in width than the total width of the step.
- H3-001T is only suitable for round profile handrails. Use G3-001T or MS-26 for flat profile handrails.
- Wherever Ecoglo path marking products are installed, the escape routes must be kept clear.
- Installer must complete Ecoglo PS-3 form to confirm that all Ecoglo components are installed in accordance with Ecoglo installation instructions.
- For specific information relating to periodic inspection and maintenance procedures for photoluminescent exit signs and path markings, refer to the Photoluminescent Lighting Council Standard PLCS 102(NZ) Passive Photoluminescent Exit Signs and Path Markings: Inspection and Maintenance available from www.ecoglo.co.nz

Ecoglo Key



Exit from here
16 metre maximum viewing distance
S20-RM2916-16m - 290mm x 162mm

Ecoglo F15-175 nosings
Ecoglo H3-001





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Ecoglo Key



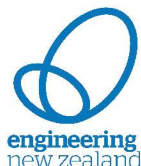
Exit from here
16 metre maximum viewing distance
S20-RM2916-16m - 290mm x 162mm



Ecoglo F15-175 nosings



Ecoglo H3-001



New Zealand
Institute of Architects
Incorporated



Building Code Clause(s) **F6**

PRODUCER STATEMENT – PS1 – DESIGN

(Guidance on use of Producer Statements (formerly page 2) is available at www.engineeringnz.org)

ISSUED BY: **Ecoglo International Ltd**
(Design Firm)

TO: **Three Blokes Limited**
(Owner/Developer)

TO BE SUPPLIED TO: **Auckland Council**
(Building Consent Authority)

IN RESPECT OF: **Visibility of the escape routes. Exit signs to identify the escape routes.**
(Description of Building Work)

AT: **362 Matakana Valley Road, Matakana**
(Address)

LOT DP SO: **Section 1 SO 400726, PT Allotment Lot 51, Parish of Matakana**

We have been engaged by the owner/developer referred to above to provide:

Design of photoluminescent escape route system.

(Extent of Engagement)

services in respect of the requirements of Clause(s) **F6, F8.3.1, F8.3.3, B2** of the Building Code for:

☐ All or ☒ Part only (as specified in the attachment to this statement), of the proposed building work.

The design carried out by us has been prepared in accordance with:

☐ Compliance Documents issued by the Ministry of Business, Innovation & Employmentor
(verification method/acceptable solution)

☒ Alternative solution as per the attached schedule. **Emergency Visibility Design Report, dated 14 February 2023**

The proposed building work covered by this producer statement is described on the drawings titled:

2022K012 F6 Plan R0and numbered;
together with the specification, and other documents set out in the schedule attached to this statement.

On behalf of the Design Firm, and subject to:

- (i) Site verification of the following design assumptions
- (ii) All proprietary products meeting their performance specification requirements;

I believe on reasonable grounds that a) the building, if constructed in accordance with the drawings, specifications, and other documents provided or listed in the attached schedule, will comply with the relevant provisions of the Building Code and that b), the persons who have undertaken the design have the necessary competency to do so. I also recommend the following level of construction monitoring/observation:

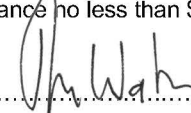
☒ CM1 ☐ CM2 ☐ CM3 ☐ CM4 ☐ CM5 (Engineering Categories) or ☐ as per agreement with owner/developer (Architectural)

I, **Mark Watson** am: ☒ CPEng **233145** # ☐ Reg Arch #
(Name of Design Professional)

I am a member of: ☒ Engineering New Zealand ☐ NZIA and hold the following qualifications: **BE, CMEngNZ, CPEng, IntPE(NZ)**

The Design Firm issuing this statement holds a current policy of Professional Indemnity Insurance no less than \$200,000*.

The Design Firm is a member of ACENZ: ☐

SIGNED BY **Mark Watson** (Signature) 
(Name of Design Professional)

ON BEHALF OF **Ecoglo International Ltd** Date **14 February 2023**
(Design Firm)

Note: This statement shall only be relied upon by the Building Consent Authority named above. Liability under this statement accrues to the Design Firm only. The total maximum amount of damages payable arising from this statement and all other statements provided to the Building Consent Authority in relation to this building work, whether in contract, tort or otherwise (including negligence), is limited to the sum of \$200,000.*

This form is to accompany **Form 2 of the Building (Forms) Regulations 2004** for the application of a Building Consent.
THIS FORM AND ITS CONDITIONS ARE COPYRIGHT TO ACENZ, ENGINEERING NEW ZEALAND AND NZIA



Photoluminescent Exit Signs to meet NZBC F8



Exit

Exit straight on from here
16 metres maximum viewing distance
S20-EX2313-16m
230mm x 133mm

24 metres maximum viewing distance
S20-EX2916-24m
290mm x 162mm



Pictogram Uni

Exit straight on from here
16 metres maximum viewing distance
S20-RM1616UN-16m
162mm x 162mm

24 metres maximum viewing distance
S20-RM2323UN-24m
230mm x 230mm



Pictogram

Exit straight on from here
16 metres maximum viewing distance
S20-RM2916-16m
290mm x 162mm

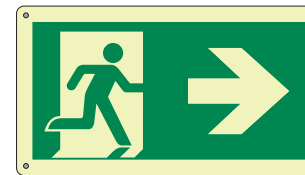
24 metres maximum viewing distance
S20-RM4223-24m
420mm x 230mm



Pictogram Left

Exit left from here
16 metres maximum viewing distance
S20-RML2916-16m
290mm x 162mm

24 metres maximum viewing distance
S20-RML4223-24m
420mm x 230mm



Pictogram Right

Exit right from here
16 metres maximum viewing distance
S20-RMR2916-16m
290mm x 162mm

24 metres maximum viewing distance
S20-RMR4223-24m
420mm x 230mm



Double Arrow

Exit right or left from here
16 metres maximum viewing distance
S20-RMRL2916-16m
290mm x 162mm

24 metres maximum viewing distance
S20-RMRL4223-24m
420mm x 230mm



No Exit

Do not use this door to exit in an emergency
16 metres maximum viewing distance
S20-NE4113-16m
410mm x 133mm



Arrow

Travel in this direction
3 sizes
S20-AR1313
133mm x 133mm
S20-AR1616
162mm x 162mm
S20-AR2323
230mm x 230mm



Hybrid PL Exit Sign

LED/Photoluminescent Exit Sign System
Single Sided HYU1.2
Double Sided HYU2-2.
Signs can be, surface, ceiling, recess ceiling or flag mounted.
Decals:
Pictogram, Pictogram Left, Pictogram Right, Double Arrow (16 metres maximum viewing distance) or Exit, Exit Right, Exit Left (24 metres maximum viewing distance.) Low light decals also available.



Signs Available

- Exit
- Pictogram
- Pictogram Left
- Pictogram Right
- Double Arrow

Check with Ecoglo for order codes

BR2 Architectural Series

includes:

- 4mm clear acrylic faceplate
 - 4mm green acrylic backing plate
 - Anodised aluminium mounting plates
- 16 metres and 24 metres viewing distances available.

BR2-S20

BR2-S20 (Surface Mount)
BR2-162-S20, BR2-230-S20 (Flag Mount)
BR2-290-S20, BR2-420-S20 (Ceiling Mount)

BR2-LBC

The same in appearance as BR2-S20 signs, however BR2-LBC have no 'Red List' ingredients and are Living Building Challenge (LBC) compliant.
BR2-LBC (Surface Mount)
BR2-LBC-162, BR2-LBC-230 (Flag Mount)
BR2-LBC-290, BR2-LBC-420 (Ceiling Mount)

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Ph: 03 348 3781

Email: info@ecoglo.com

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Pictogram Left, Pictogram Right and Double Arrow signs are also available double-sided (two signs back to back).
Pictogram, Pictogram Left and Pictogram Right signs can also be manufactured to 32m, 40m and 48m viewing distances.
Weatherproof options available for standard S20 range.



Product Technical Statement



Manufacturer Ecoglo International Limited

Contact Technical Manager
Ecoglo International Limited

Phone ph +64 3 348 3781

email engineer@ecoglo.com

Webpage www.ecoglo.co.nz

Product: Ecoglo S20 Photoluminescent Exit Signs

Description: The Ecoglo S20 Photoluminescent Exit Signs range provides pictogram and text signage to identify exits from buildings. The photoluminescent signs do not require an emergency power supply.

Scope of Use: This product technical statement covers the Ecoglo range of photoluminescent exit signs listed below which are an acceptable solution for Risk Group C buildings (as defined in Acceptable Solution F6/AS1) when the installed lighting to charge the photoluminescent material provides at least 100 lux on the sign.

The product technical statement also covers their use as an alternative solution when:

- The visible distance is up to 32m, 40m and 48m respectively for signs identified as -32m, 40m and -48m respectively;
- The illuminance on the sign by installed lighting for charging is less than 100 lux but greater than 55 lux;
- Installed in Risk Group A or B buildings.

The product technical statement covers the following products:

- Exit: S20-EX2313-16m; S20-EX2916-24m; S20-TREX2916-16m Te Reo Exit "Putanga"
- Pictogram (Exit Straight): S20-RM1616UN-16m; S20-RM2323UN-24m; S20-RM2916-16m; S20-RM4223-24m; S20-RM5630-32m; S20-RM7038-40m; S20-RM8445-48m
- Pictogram (Exit Left): S20-RML2916-16m; S20-RML4223-24m; S20-RML5630-32m; S20-RML7038-40m; S20-RML8445-48m
- Pictogram (Exit Right): S20-RMR2916-16m; S20-RMR4223-24m; S20-RMR5630-32m; S20-RMR7038-40m; S20-RMR8445-48m
- Pictogram (Exit Left/Right): S20-RMRL2916-16m; S20-RMRL2916HV-16m Hi Vis; S20-RMRL4223-24m; S20-RMRL4223HV-24m Hi Vis
- Emergency Exit: S20-EE6128-16m; S20-EE7835-24m
- Arrow: S20-AR1313; S20-AR1616; S20-AR2323
- Accessible Route: S20-AC1616
- No Exit: S20-NE4113-16m

Conditions: To be installed/used as described in Product literature "Emergency Signs and Escape Routes New Zealand Catalogue v19.2" (available from www.ecoglo.co.nz).

Signs must be charged by exposure to electric lighting, or daylight (supplemented by electric lighting if necessary). Daylight through window glass, whether direct or reflected off room surfaces, provides effective charging for Ecoglo signs.

Fluorescent, metal halide, or LED lighting with a colour temperature of 4000K or greater are suitable charging sources for Ecoglo exit signage.



When installed in Risk Group A buildings an emergency power system must restore normal lighting levels within 30 minutes of the power failure. For buildings where the safety design has been carried out using C/VM2, that specific design may not be compatible with Ecoglo S20 photoluminescent signage in some circumstances. See "Technical Justification for Ecoglo S20 Photoluminescent Exit Signs V19.1" for details.

Limitations: If the installed lighting used to charge Ecoglo in a building has a colour temperature of less than 4000K, a specific design of the lighting by Ecoglo is required.

Technical Literature: Technical Justification for Ecoglo Markings v19.1 (available from www.ecoglo.co.nz).
Technical Justification for Ecoglo S20 Photoluminescent Exit Signs v19.1 (available from www.ecoglo.co.nz).
Emergency Signs and Escape Routes New Zealand Catalogue v19.2 (available from www.ecoglo.co.nz).

When used as described above, Ecoglo S20 Photoluminescent Exit Signs meet the following relevant performance requirements of the New Zealand Building Code

Relevant Code Clause:	Basis of Compliance:	Related documents:	Comments:
Durability B2.3.1b, c	Building Code performance		The luminance from the photoluminescent material in Ecoglo signs does not significantly degrade over time. Indoors, where UV is usually negligible, Ecoglo markings can be expected to remain suitably visible for at least 30 years, and outdoors for at least 15 years.
Hazardous building materials F2.3.1	Building Code performance		The photoluminescent compounds used in Ecoglo products are not hazardous and do not emit any harmful radiation.
Signs F8.3.1	Acceptable Solution	F8/AS1	Ecoglo emergency exit signs installed as specified comply.
Signs F8.3.3	Acceptable Solution	F8/AS1	Ecoglo emergency exit signs located to identify escape routes and installed in accordance with Ecoglo specifications comply with F8.

Guidance for Consenting: Verification of ongoing luminance is not required. Ecoglo Inspection and Maintenance Procedures for Compliance Schedules check that the signs as installed have not been damaged or removed, and that any electrical lighting to charge the signs continues to function as intended.



Photoluminescent Markers to meet NZBC F6

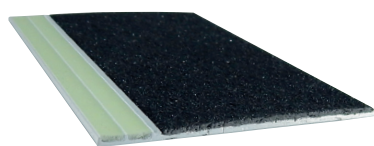


E2-071 Step Edge Contrast

Available in standard lengths from 800mm to 1500mm (in 100mm increments).

E2-071 For polyurethane adhesive fixing

E2-071P Punched for adhesive and screw fixing

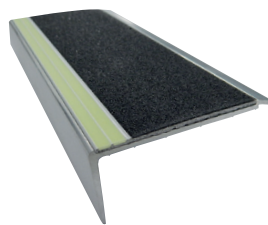


E14-075 Step Edge Contrast

Available in standard lengths from 800mm to 1500mm (in 100mm increments).

E14-075 For polyurethane adhesive fixing

E14-075P Punched for adhesive and screw fixing

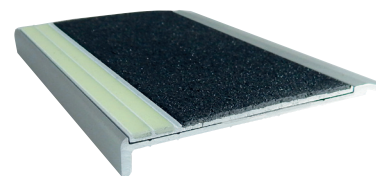


F15-175 Step Nosing

Available in standard lengths from 800mm to 1500mm (in 100mm increments).

F15-175 Punched for adhesive and screw fixing

Note: Installation is a two step process with hidden fixers

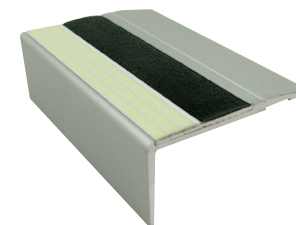


F14-175 Step Nosing

Available in standard lengths from 800mm to 1500mm (in 100mm increments).

F14-175 Punched for adhesive and screw fixing

Note: Installation is a two step process with hidden fixers

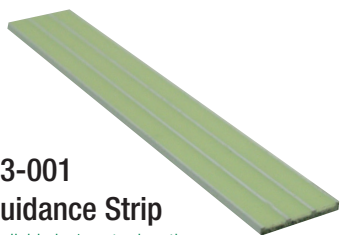


F4-171 Step Nosing

Available in standard lengths from 800mm to 1500mm (in 100mm increments).

F4-171 Punched for adhesive and screw fixing

Note: Installation is a two step process with hidden fixers



G3-001 Guidance Strip

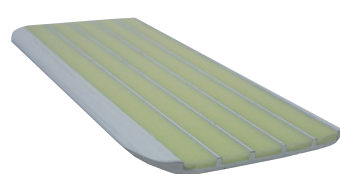
Available in 1 metre lengths or 1.5 metre lengths with pre-fitted release tape

G3-001-1000 For polyurethane adhesive fixing

G3-001P-1000 Punched for screw fixing

G3-001T-1000 Release tape pre-fitted

G3-001T-1500 Release tape pre-fitted



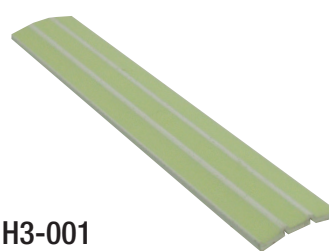
G7-100 Solaris Path Marker

Available in packs with 10 x 100mm pieces

G7-100 For polyurethane adhesive fixing

G7P-100 Punched for adhesive and screw fixing

G7T-100 Release tape pre-fitted

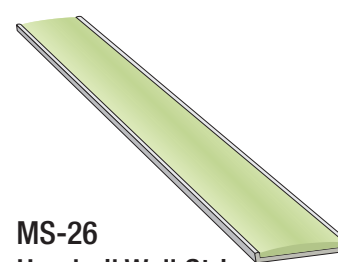


H3-001 Handrail Marker

Available in 1 metre and 1.5 metre lengths

H3-001T-1000 Release tape pre-fitted

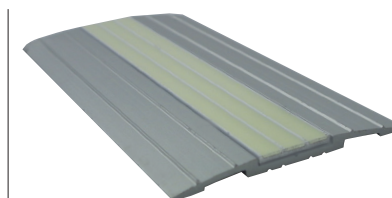
H3-001T-1500 Release tape pre-fitted



MS-26 Handrail Wall Strip

Available in 1 metre lengths

MS-26T-1000 Release tape pre-fitted

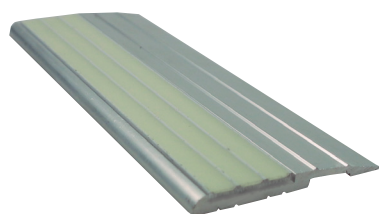


T5-101 Path Marker

Available in 1 metre lengths

T5-101-1000 For polyurethane adhesive fixing

T5-101P-1000 Punched for screw fixing

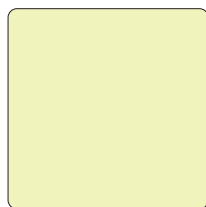


T6-101 Path Marker

Available in 1 metre lengths

T6-101-1000 For polyurethane adhesive fixing

T6-101P-1000 Punched for screw fixing



Door Handle Marker

24 metres maximum viewing distance

S20-SQ-60 Release tape pre-fitted

60mm x 60mm

MAINTAINED EMERGENCY LIGHTING SWITCH

This light must be switched on whenever this building is occupied to maintain the fitted emergency lighting system

For more information about this system please contact Ecoglo
0800 232 6456  VISIBLY BETTER

Maintained Emergency Lighting Switch Sign

S10-LS0711 Release tape pre-fitted 70mm x 115mm

Where adhesive is required
Ecoglo recommends
Würth KD Bond+Seal
or Bostik Seal'n'Flex

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Ecoglo International Ltd.

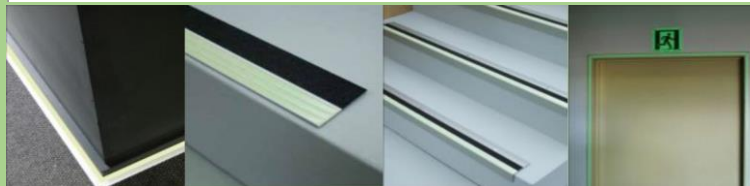
Ph: 03 348 3781

Email: info@ecoglo.com

www.ecoglo.co.nz



Product Technical Statement



Manufacturer Ecoglo International Limited

Contact Technical Manager
Ecoglo International Limited
ph +64 3 348 3781

engineer@ecoglo.com

Webpage www.ecoglo.co.nz

Product: Ecoglo Photoluminescent Visibility in Escape Routes Products

Description: Ecoglo Photoluminescent Visibility in Escape Routes Products provide a means of making specified features in escape routes reasonably visible during the failure of the main lighting. An emergency power supply is not required.

Scope of Use: This product technical statement covers the Ecoglo range of photoluminescent Visibility in Escape Routes products listed below which are an alternative solution for Risk Group B and C buildings (as defined in acceptable solution F6/AS1).

The product technical statement covers the following products:

- Step Edge Contrast: E2-071, E14-075, G8-011
- Step Nosing: F4-171, F14-175, F4-G111
- Door Handle Marker: SQ60
- Path Marker: G7-100
- Path Marker: T6-101
- Path Marker: T5-101
- Guidance Strip: G3-001, G4-001
- Handrail Marker: H3-001, MS-26

Conditions: To be installed/used as described in Product literature "Emergency Signs and Escape Routes NZ Catalogue v16.3" (available from www.ecoglo.co.nz). Visibility in Escape Routes products must be charged by exposure to electric lighting, or daylight (supplemented by electric lighting if necessary). Daylight through window glass, whether direct or reflected off room surfaces, provides effective charging. Fluorescent, metal halide, or LED lighting with a colour temperature of 4000K or greater are suitable charging sources.

Limitations: If the installed lighting used to charge Ecoglo in a building has a colour temperature of less than 4000K, a specific design by Ecoglo of the lighting is required.

Related Technical Literature: "Technical Justification for Ecoglo Markings v16.2" (available from www.ecoglo.co.nz).

"Emergency Signs and Escape Routes NZ Catalogue v16.3" (available from www.ecoglo.co.nz).

"Designers Handbook for Ecoglo Markings v16.1" (available from www.ecoglo.co.nz).

Relevant Code Clause: Basis of Compliance:

Related documents:

Reference: eco9500

ISSUED 01-Jun-16

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This Product Technical Statement is a statement by the manufacturer that this product, if installed in accordance with the technical data, plans, specifications, and advice prescribed by the manufacturer, will comply with the relevant provisions of the building code. (Building Act 2004 Section 14G). It relates to the provisions of the building code in effect at the date of issue of this Product Technical Statement.



Prepared by:
Tekton Consulting
www.tekton.co.nz

BCO10364430 Received by Auckland Council 10/03/2023



Durability	B2.3.1	Building Code performance
Hazardous building materials	F2.3.1	Building Code performance
Visibility in escape routes	F6.3.1	Alternative solution
Visibility in escape routes	F6.3.2	Acceptable Solution
Visibility in escape routes	F6.3.4	Alternative solution

The luminance from the photoluminescent material in Ecoglo signs does not significantly degrade over time. Indoors, where UV is usually negligible, Ecoglo markings can be expected to remain suitably visible for at least 30 years, and outdoors for at least 15 years.

The photoluminescent compounds used in Ecoglo products are not hazardous and do not emit any harmful radiation.

Ecoglo Photoluminescent Visibility in Escape Routes installed in accordance with Ecoglo specifications meet this requirement.

Ecoglo Photoluminescent Visibility in Escape Routes installed in accordance with Ecoglo specifications meet this requirement.

Ecoglo Photoluminescent Visibility in Escape Routes installed in accordance with Ecoglo specifications meet this requirement for Risk Group B and C buildings.

Guidance for Consenting: Verification of ongoing luminance is not required. Ecoglo Inspection and Maintenance Procedures for Compliance Schedules check that the Visibility in Escape Routes products as installed have not been damaged or removed, and that any electrical lighting to charge the photoluminescent material continues to function as intended.