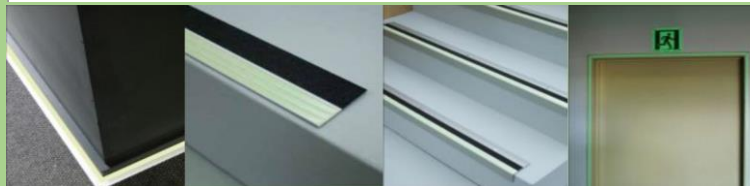


## Product Technical Statement



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### 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](http://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](http://www.ecoglo.co.nz)).

"Emergency Signs and Escape Routes NZ Catalogue v16.3" (available from [www.ecoglo.co.nz](http://www.ecoglo.co.nz)).

"Designers Handbook for Ecoglo Markings v16.1" (available from [www.ecoglo.co.nz](http://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**  
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Durability	B2.3.1	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.
Visibility in escape routes	F6.3.1	Alternative solution	Ecoglo Photoluminescent Visibility in Escape Routes installed in accordance with Ecoglo specifications meet this requirement.
Visibility in escape routes	F6.3.2	Acceptable Solution	Ecoglo Photoluminescent Visibility in Escape Routes installed in accordance with Ecoglo specifications meet this requirement.
Visibility in escape routes	F6.3.4	Alternative solution	Ecoglo Photoluminescent Visibility in Escape Routes installed in accordance with Ecoglo specifications meet this requirement for Risk Group B and C buildings.

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**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.