

## Ecoglo Architectural Specifications

### Step Nosings

Nosings for carpet, thin coverings and hard floors should be sized at 68mm tread depth and 33mm riser height. Nosings to be 6060T5 or 6063T5 aluminium extrusions, silver anodised to 20 microns thickness with replaceable inserts fixed in to the extrusion using modified acrylic adhesive tape. The inserts to be an extruded aluminium section of 38mm width powder coated white, comprising the high contrast combination of a 15mm wide ribbed yellow-green photoluminescent area and 20mm wide black non-slip area. Both the photoluminescent and the non-slip materials should comprise thermoset polyester carriers that integrally bond the active ingredients into the powder-coated aluminium following curing at 180 degrees centigrade. From fully charged the photoluminescent material should provide 500mcd/m<sup>2</sup> after 10 minutes and 13mcd/m<sup>2</sup> of luminance after 4 hours.

When charged with 21.5 lux from a 4000k Fluorescent lamp for 120 minutes photoluminescent material should provide 100mcd/m<sup>2</sup> luminance after 10 minutes & 20mcd/m<sup>2</sup> luminance after 90 minutes.

To ensure the longevity of the photoluminescent material, the brightness loss after 1000 hours of Weatherometer exposure (ASTM G155 Cycle 1) should be less than 10%. The non-slip material should meet the UL410 standard for slip resistance.

### Waymarking Strips

Waymarking strips should be at least 15mm width and comprise a 6060T5 or 6063T5 aluminium extrusion with ribs on the top surface, powder-coated white, and in-filled with photoluminescent pigment in a thermoset polyester carrier, integrally bonded to the powder coated aluminium following curing at 180 degrees centigrade.

From fully charged the photoluminescent material should provide 500mcd/m<sup>2</sup> luminance after 10 minutes and 13mcd/m<sup>2</sup> of luminance after 4 hours.

When charged with 21.5 lux from a 4000k Fluorescent lamp for 120 minutes photoluminescent material should provide 100mcd/m<sup>2</sup> luminance after 10 minutes & 20mcd/m<sup>2</sup> luminance after 90 minutes.

To ensure the longevity of the photoluminescent material, the brightness loss, after 1000 hours of Weatherometer exposure (ASTM G155 Cycle 1) should be less than 10%.

### Handrail Strips

Handrail strips should be at least 15mm width and comprise a curved 6060T5 or 6063T5 aluminium extrusion profile of 21.5mm radius with ribs on the top surface, powder coated white and in-filled with a photoluminescent pigment in a thermoset polyester carrier integrally bonded to the powder coated aluminium, following curing at 180 degrees centigrade.

The content of pigment in handrail strips should be reduced due to the closer proximity of the eye. From fully charged the photoluminescent material should provide 200mcd/m<sup>2</sup> luminance after 10 minutes & 6mcd/m<sup>2</sup> luminance after 4 hours.

When charged with 21.5 lux from a 4000K Fluorescent lamp for 120 minutes photoluminescent material should provide 40mcd/m<sup>2</sup> luminance after 10 minutes and 7mcd/m<sup>2</sup> luminance after 90 minutes.

To ensure the longevity of the photoluminescent material, the brightness loss after 1000 hours of Weatherometer exposure (ASTM G155 Cycle 1) should be less than 10%.

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### **Signage and Labels (inc. Letter/Number Markers)**

Signage and labels to be made from 0.9mm 5000 series aluminium sheet, powder-coated white then coated with a photoluminescent pigment in a thermoset polyester carrier integrally bonded to the powder-coated aluminium following curing at 180 degrees centigrade.

When charged with 21.5 lux from a 4000K Fluorescent lamp for 120 minutes Photo-luminescent material should provide 75mcd/m<sup>2</sup> luminance after 10 minutes, and 15mcd/m<sup>2</sup> luminance after 90 minutes.

To ensure the longevity of the photoluminescent material, the brightness loss after 1000 hours of Weatherometer exposure (ASTM G155 Cycle 1) should be less than 10%.

The material is to be screen printed, using UV stable inks. A protective thermoset polymer coating is bonded on at 180 degrees centigrade, to provide a highly durable finish.

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