



# Lighting the Way...

## ...with Aluminator™

P.V.C. Trim • Stair Nosings • Expansion Joints • Transitions • Seals • Edge Protection • Metal Trim • Skirting • Tools

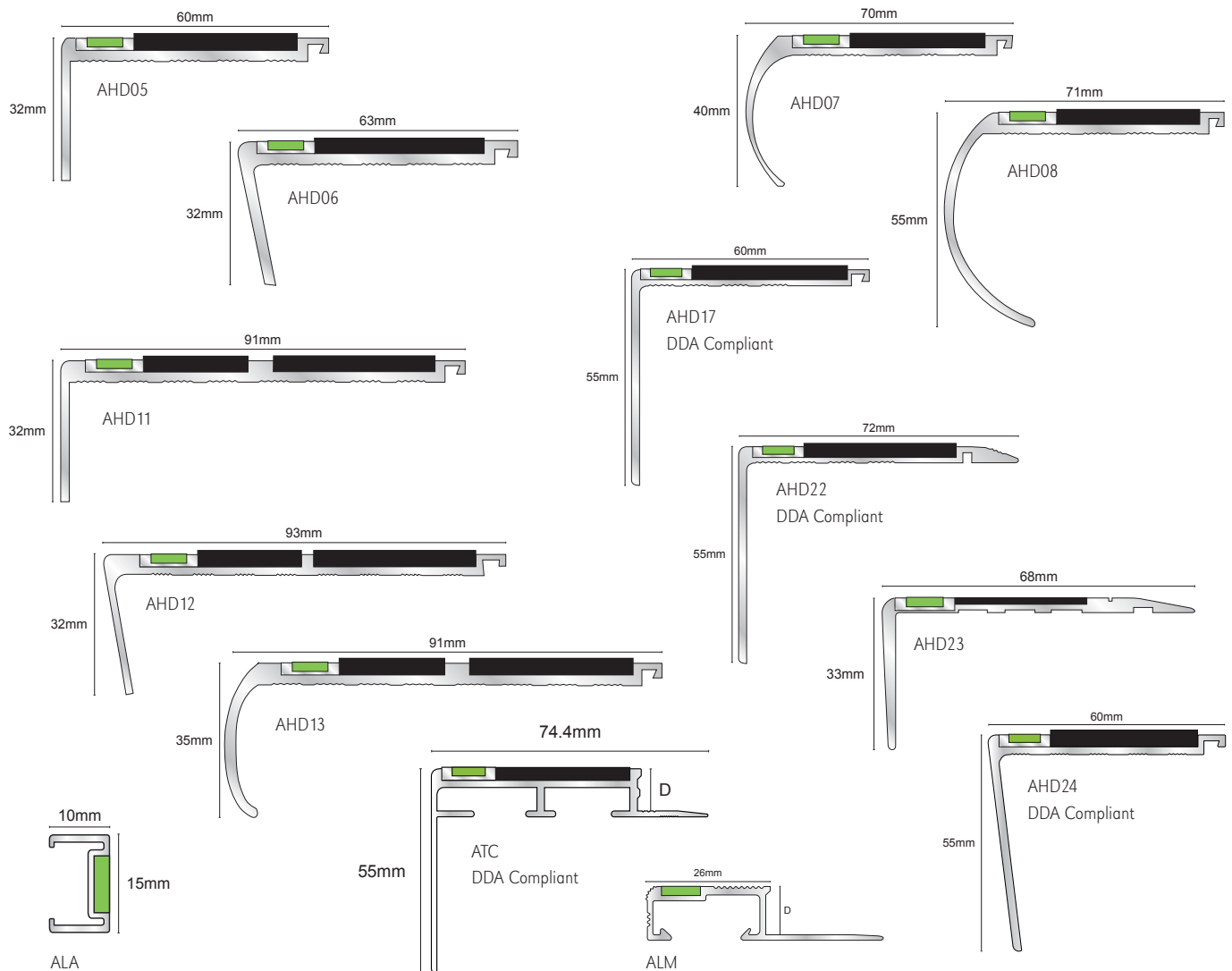
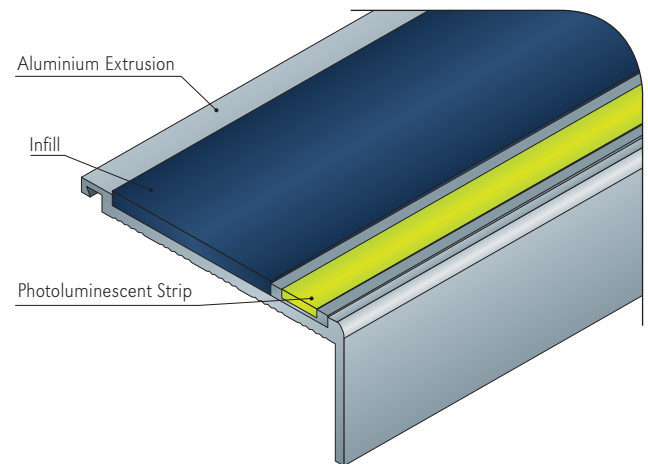


**Genesis**  
For the Perfect Finish

# Aluminator™ - Photoluminescent Lighting

## Innovative Eco Product

- Energy efficient – Solar powered renewable energy
- Up to 30 minutes solar charge can provide over 8 hours of illumination.
- Easy to install – No need for electrical installation
- Suitable for indoor and outdoor use
- High slip resistance when used with the new Genesis Silicone Carbide Insert
- Compatible with all Genesis Single Channel Heavy Duty Nosings
- Wide range of colour infills available
- DDA compliant range available





| Code   | D (mm) | Length (m) | Finish |
|--------|--------|------------|--------|
| ALM106 | 10.5   | 2.6        | 81     |
| ALM126 | 12.5   | 2.6        | 81     |
| ALA100 | 10     | 2.5        | 81     |

| Code  | W x D (mm) | Insert Option                               |
|-------|------------|---|
| ATC10 | 74 x 10    | 01,16,20,25,27,28,30,43,44,46,47,48,109,216 |
| ATC12 | 74 x 12.5  | 01,16,20,25,27,28,30,43,44,46,47,48,109,243 |

Available in 3.22m Standard Lengths. Matt Silver only

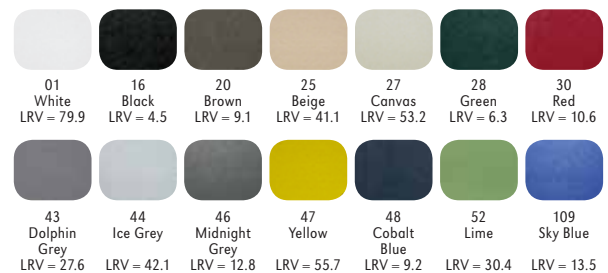
| Code  | W x D (mm) | Insert Option                           |
|-------|------------|---|
| AHD05 | 60 x 32    | 01,16,20,25,27,28,30,43,44,46,47,48,109 |
| AHD06 | 63 x 32    | 01,16,20,25,27,28,30,43,44,46,47,48,109 |
| AHD07 | 70 x 40    | 01,16,20,25,27,28,30,43,44,46,47,48,109 |
| AHD08 | 71 x 56    | 01,16,20,25,27,28,30,43,44,46,47,48,109 |
| AHD11 | 91 x 32    | 01,16,20,25,27,28,30,43,44,46,47,48,109 |
| AHD12 | 93 x 32    | 01,16,20,25,27,28,30,43,44,46,47,48,109 |
| AHD13 | 91 x 35    | 01,16,20,25,27,28,30,43,44,46,47,48,109 |
| AHD17 | 60 x 55    | 01,16,20,25,27,28,30,43,44,46,47,48,109 |
| AHD22 | 72 x 55    | 01,16,20,25,27,28,30,43,44,46,47,48,109 |
| AHD24 | 60 x 55    | 01,16,20,25,27,28,30,43,44,46,47,48,109 |

Available in 2.46m, 2.77m, 3.22m Standard Lengths

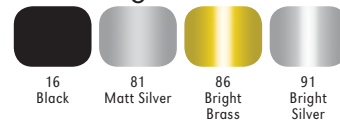
| Code     | W x D (mm) | Length (m) | Infill Finish |
|----------|------------|------------|---------------|
| AHD23277 | 68 x 33    | 2.77       | 16            |

An alternative range of anodising and powder coated options are also available in addition to the standard options (right).

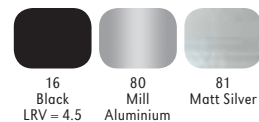
### Insert



### Anodising - Maximum length 3m



### Channel



## Installation (for tiled installations)

1. Ensure that the tile depth is consistent with the depth of the Aluminator™ profile if you require a flush finish.
2. Trowel tile adhesive over the area.
3. Press the Aluminator™ profile into place and align on top of the already laid tile.
4. Solidly embed the tiles so that the tiled surface is flush with the top of the profile (the profile should not be higher than the tiled surface, but rather up to approx. 1 mm lower).
5. Fill the joint completely with grout.

**For Installation with with carpet or vinyl please see our technical data pack**

## Technical Details

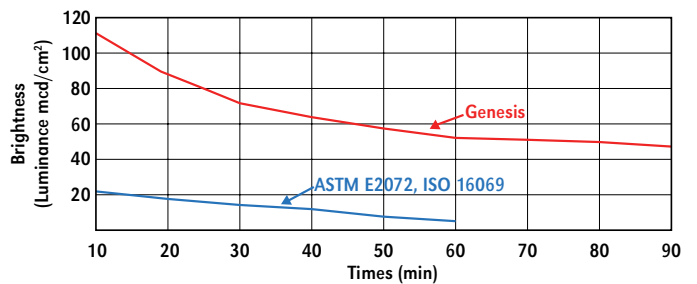
Aluminator™ profiles are available in a Matt Silver anodised finish - All natural Aluminium (Mill Finish) has an oxide film of approx 0.2 microns, when anodised with a matt finish this increases up to 20 microns.

| Aluminium AA 6063 T6 / UNS A96063 anodised to DIN 17611 |          |
|---|----------|
| Si%   | 0.2-0.6  |
| Fe%   | 0.35     |
| Cu%   | 0.1      |
| Mn%   | 0.1      |
| Mg%   | 0.45-0.9 |
| Zn%   | 0.1      |
| Ti%   | 0.1      |
| Cr%   | 0.1      |
| Al  | Balance  |

## Photoluminescent Strip Test

Wear Resistance passed 300 cycles; ISO 9352 1995 Plastics - Determination or resistance to wear by abrasive wheel Abrasive wheel CS10, Load 1000 gram, speed 60 rpm.

Illuminant Test; ASTM E 2073-07 Standard Test Method for Photonic Luminance of Photoluminescent (Phosphorescent) Charging Time (4000-4500 K, 21.6 Lux) = 120 min, shown the decay curve following:



| Photoluminescent charge by fluorescent (20 lux*, 4100K) |                     |
|---|---------------------|
| Activation Time   | Hours of Visibility |
| 5 minutes   | 36 minutes          |
| 10 minutes  | 1 hour 15 minutes   |
| 20 minutes  | 2 hours 16 minutes  |
| 30 minutes  | 2 hours 50 minutes  |

| Photoluminescent charge by fluorescent (150 lux*, 4100K) |                     |
|--|---------------------|
| Activation Time  | Hours of Visibility |
| 5 minutes  | 2 hours 30 minutes  |
| 10 minutes   | 4 hours 31 minutes  |
| 20 minutes   | 6 hours 15 minutes  |
| 30 minutes   | 7 hours 45 minutes  |

## Maintenance

Genesis Aluminator™ profiles do not require any special maintenance. Oxidation films on Aluminium may be removed with a common polishing agent; however, they do reoccur. Damaged anodised finishes may only be repaired by re-coating.

Aluminium must be tested to verify its suitability if chemical stresses are anticipated. Cementitious materials, in conjunction with moisture, become alkaline. Since aluminium is sensitive to alkaline substances, exposure to the alkali (depending on the concentration and time of exposure) may result in corrosion (aluminium hydroxide formation). Therefore, it is important to remove adhesive or grout residue from visible surfaces. In addition, ensure that the profile is solidly embedded in the setting material and that all cavities are filled to prevent the collection of alkaline water. The anodised layer creates a finish that retains a uniform appearance during er, is susceptible to scratching and wear and may be damaged by tile adhesive, mortar, or grouting material. Therefore, setting materials must be removed immediately. Otherwise, the description regarding aluminium applies.

## Insert Data

**Standard Insert** - slip-resistance tests have been independently undertaken achieving a PTV av of 62 in Dry and 51 during Wet conditions, BS8300 : 2009 a PTV of at least 36 is required irrespective of wet or dry conditions.

**Silicone Carbide** - tested to AS/NZS 4586:2004 using Pendulum Four S slider achieved and BPN of 73 and a R13 rating @ 38°

| Photoluminescent charge by fluorescent (300 lux*, 4100K) |                     |
|--|---------------------|
| Activation Time  | Hours of Visibility |
| 5 minutes  | 4 hours 22 minutes  |
| 10 minutes   | 5 hours 45 minutes  |
| 20 minutes   | 7 hours 3 minutes   |
| 30 minutes   | 8 hours 35 minutes  |

| Some practical examples                  |             |
|--|-------------|
| Summer, at noon, under a cloudless sky   | 100,000 lux |
| Ditto, but in the shade                  | 10,000 lux  |
| In the open under a heavily-overcast sky | 5,000 lux   |
| Artificial light, in a well-lit office   | 1,000 lux   |
| Artificial light, average living room    | 100 lux     |

\*A luminance level of 5 millicandelas per square metre is defined as visible

For more information contact Genesis today

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[www.genesis-gs.com](http://www.genesis-gs.com)



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