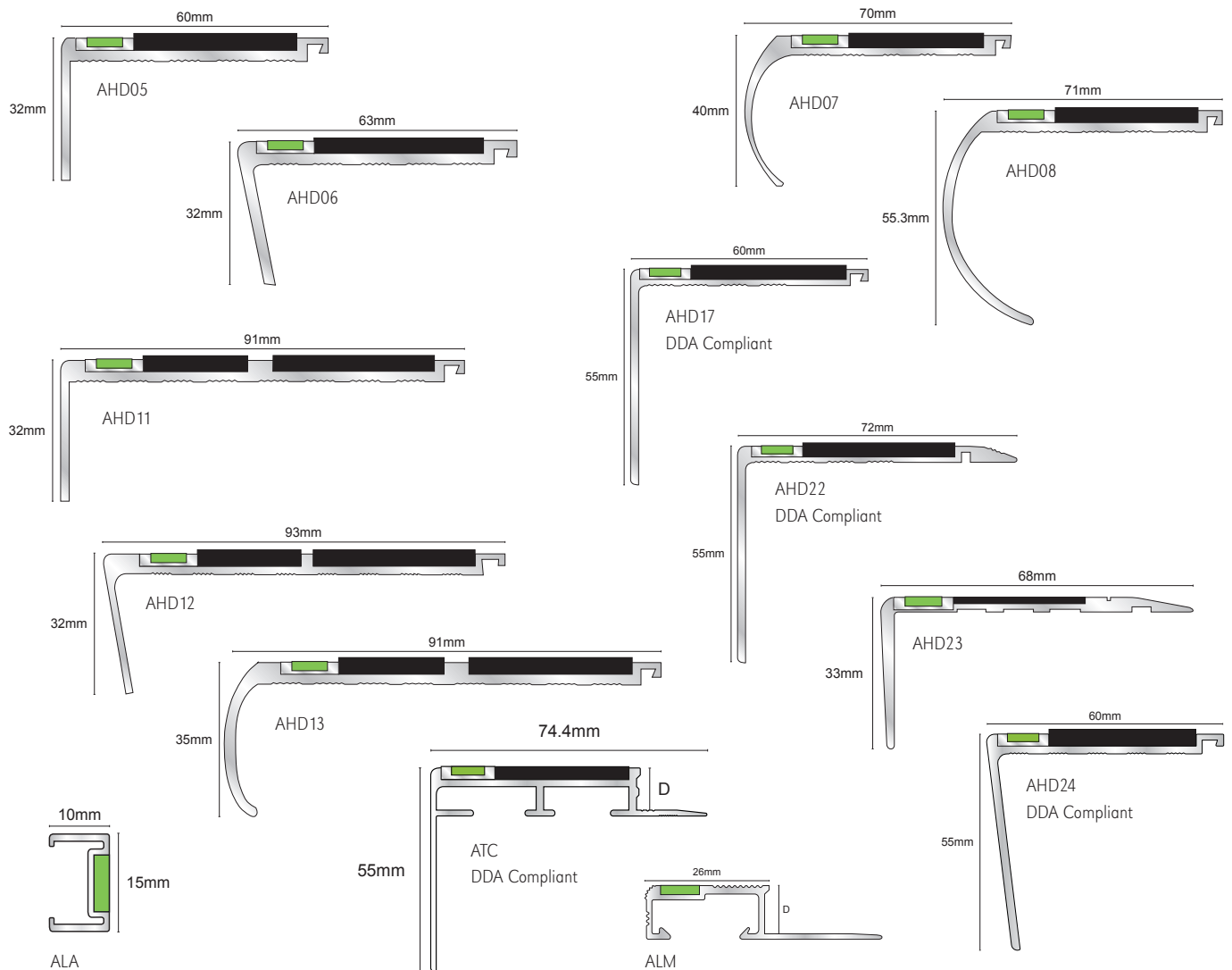
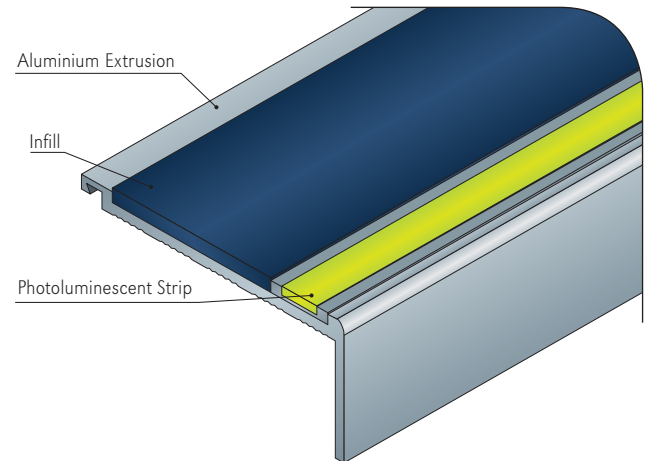


# Aluminator™ - Photoluminescent Lighting

## 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).

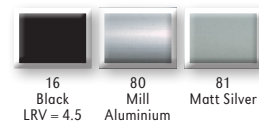
### Insert



### 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

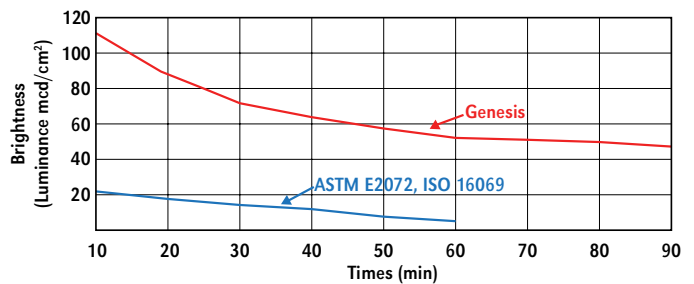
Aluminator™ profiles are available in a Matt Silver anodised finish - All natural Aluminium (Mill Finish) has an oxide film of approx 0.2 microns, when anodised with a matt finish this increases up to 20 microns.

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