

# Technical Datasheet - Stair Nosings

## Aluminator™ Heavy Duty Hard Nose PVC – AHP05

### Product Description

The AHP profile is designed to be used in most commercial and domestic applications, the rear of the profile tapers to 3mm offering greater installation opportunities.

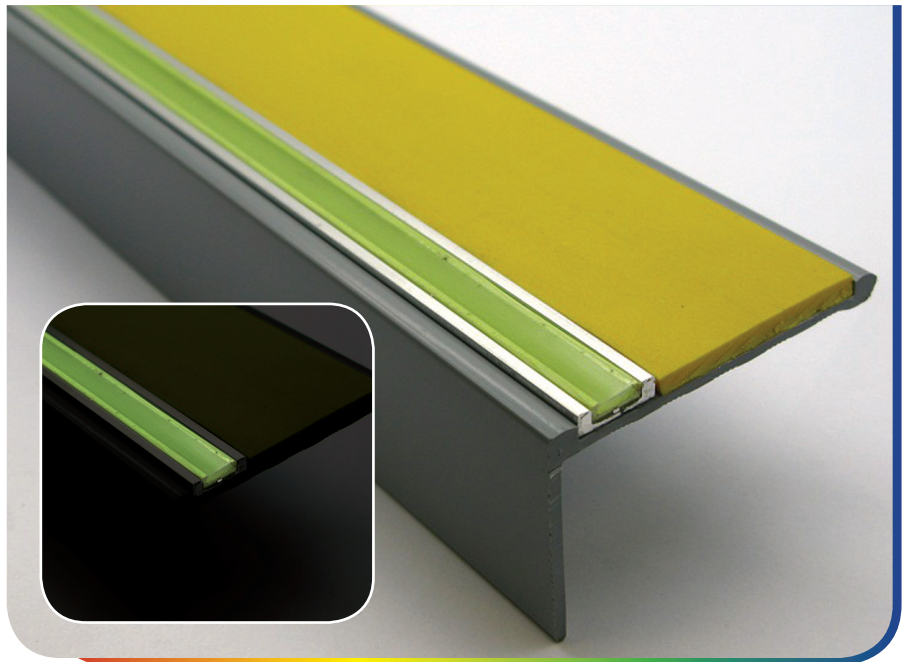
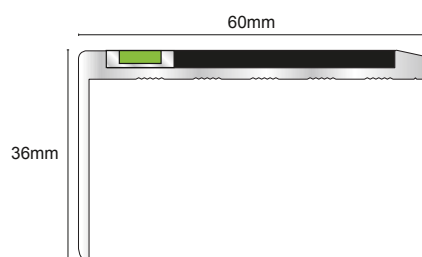
In addition to the function of step edge protection the Aluminium Tile In Aluminator™ offers an easy, energy efficient solution to illuminate steps. Should a local or emergency power failure occur on stairways, increasing the risk of hazard for evacuees, the Aluminator™ system allows the evacuee to orientate, locate stair edges and risers, and so assist in the safe evacuation of the premises. The system requires no electrical connection, is simple to install and requires no special maintenance other than that which you would normally carry out on any similar product. Only normal illumination, daylight, fluorescent or standard tungsten filaments are required to activate its performance.

### Dimensions and Colour

A wide variety of PVC coloured inserts and channel options to offer over 80 colour combinations.

Stock Lengths of 3,22m, other colours and size available on request.

### Range



### Technical Details

Not recommended for use above 60°C, resistant to most oils, alcohols, petrol's and fats. It is unsuitable for use in contact with aromatic and chlorinated hydrocarbons, ketones, nitro-compounds, esters and cyclic esters will cause some swelling.

#### PVC Insert

A filled flexible PVC extrusion grade specially designed for non -scuff stair nosing applications with good anti-slip properties; to our knowledge our inserts achieve the best slip resistance results in the market.

Slip resistance Properties: In accordance with BD6677: Part 1:1986 and in accordance with "The measurement of floor slip resistance: Guidelines recommended by the UK Slip Resistance Group: Issue 2 June 2000"

Wear Resistance: Abrasion resistance: In accordance with BS en 660-2:1999

### Maintenance

Inserts: All inserts should be cleaned using a neutral detergent and thoroughly rinsed with clean water. Ensure all inserts are dry prior to receiving foot traffic.

Aluminium Channel: These can be polished using steel wool or cloth to maintain the appearance - under no circumstances should solvent cleaners be utilised in cleaning or maintaining Genesis Aluminium Products.

### Installation

1. Ensure the steps are dry, clean, free of debris, level and even.
2. If Predrilled use the drill holes to mark steps for drilling location.
3. Drill and Plug the steps.
4. Apply suitable adhesive to the underside of the nosing and apply nosing to the step.
5. Screw down the step with the appropriate size screws.
6. Apply insert (if separate) or insert pip to cover the screw head.



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## LRV Table - Insert

GENESIS INSERT COLOUR	LRV
BLACK	4.5
GREEN	6.3
BROWN	9.1
COBALT BLUE	9.2
RED	10.6
SKY BLUE	13.5
MIDNIGHT GREY	12.8
DOLPHIN GREY	27.6
BEIGE	41.1
ICE GREY	42.1
CANVAS	53.2
YELLOW	55.7
WHITE	79.9

## LRV Table - Channel

GENESIS INSERT COLOUR	LRV
BLACK	4.4
BROWN	6.1
BEIGE	40.3
DOLPHIN GREY	31.2
SKY BLUE	9.1

## Aluminium Extrusion Standard

(DIN) EN 755 1994/1997 ; Aluminium and aluminium alloys. Alloy: 6063 Temper: T5

## Silicon Carbide Anti Slip Test (Passed High Slip Resistance)

Australian Standard; AS/NZS 4586:2004 Slip resistance classification of new pedestrian surface materials, Appendix A: WET Pendulum (Four S slider): Mean BPN: 73 V[HIGH\*]

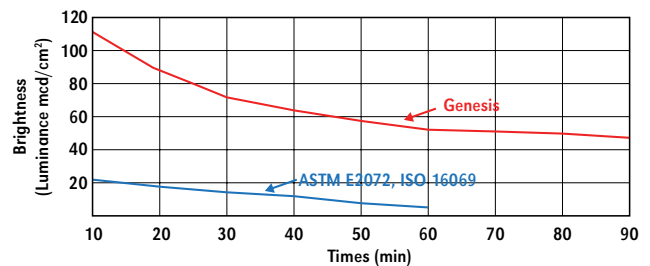
Australian Standard; AS/NZS 4586:2004 Slip resistance classification of new pedestrian surface materials, Appendix D: OIL-WET Ramp Mean overall acceptance and: 38.1° R 13 [HIGH\*]

\*CSIRIO has categorised the AS4586 classifications into sub-groups Low, Medium and High

## Photoluminescent Strip Test

Wear Resistance passed 300 cycles; ISO 9352 1995 Plastics - Determination of 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

### 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

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

### 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
Street lighting	5-30 lux

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