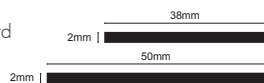


# AHD

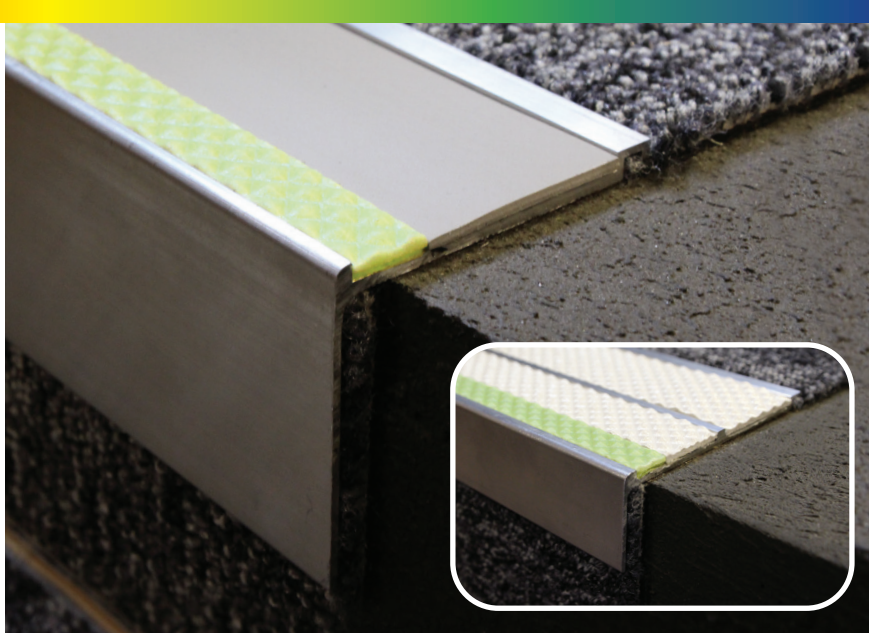
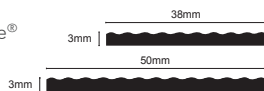
Product Datasheet 10.22

## Inserts

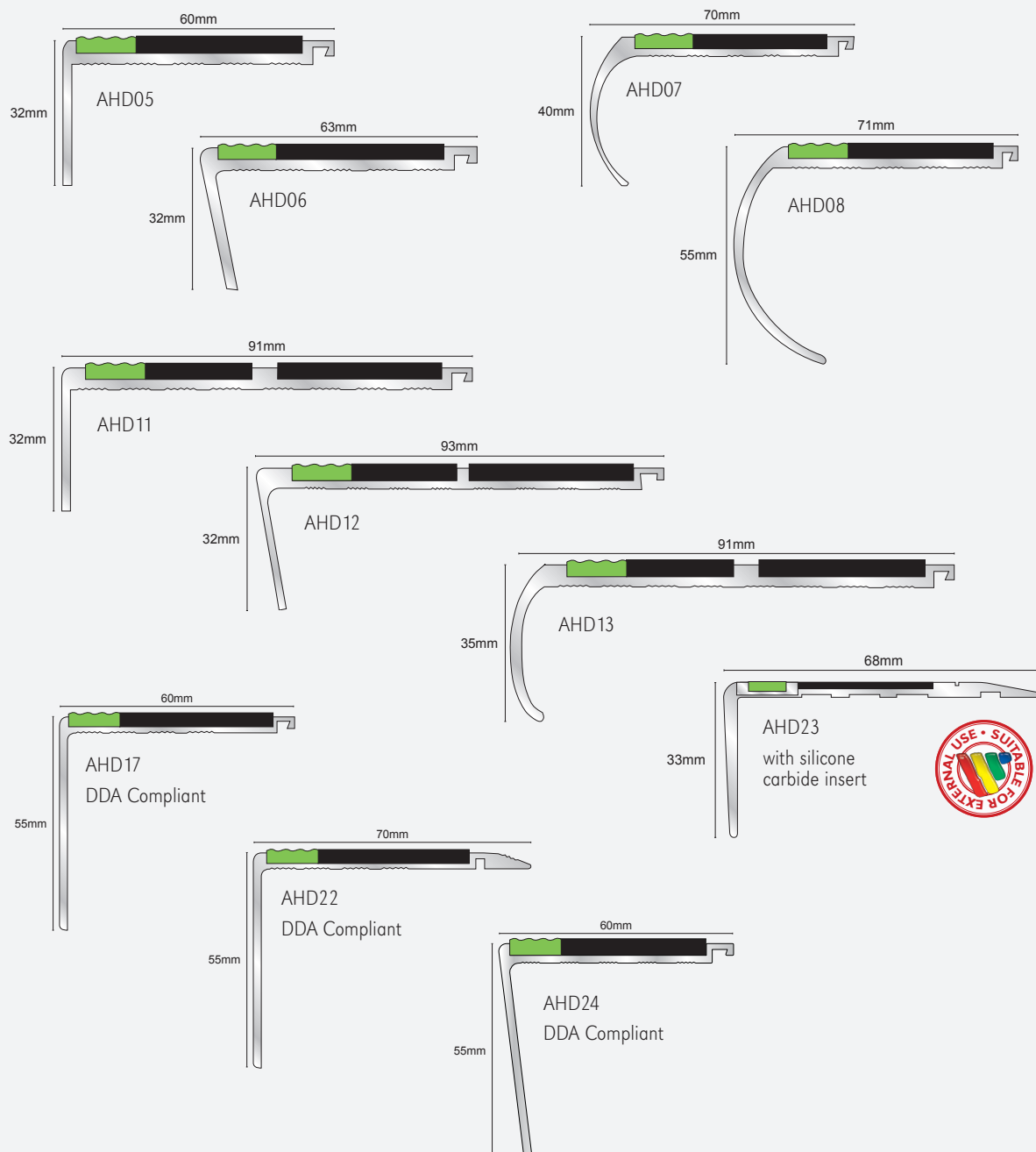
Standard



Tredsafe®



## Aluminator® Heavy Duty Nosings



## Available Inserts

### Standard PVC Insert

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

#### Slip Resistance

Inclined Platform Test DIN 51130:2010

**Category: R11**

Slip Resistance BS 7976-2:2002  
Pendulum Test

**PTV Average Dry Value: 66**

**PTV Average Wet Value: 54**

### 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° R13 [**HIGH\***].

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

#### Standard Insert



### Tredsafe® Insert

Tredsafe insert is manufactured from a special blend of P.V.C., silica quartz and polymeric plasticiser giving an homogeneous hard wearing anti-slip flooring for wet and dry conditions. (Meets British Standard for Sheet Vinyl and Vinyl Tiles BS3261:1973).

Tredsafe insert is resistant to attack from ultraviolet light, oil, grease, petrol, salt, dilute acids and alkalis, common household chemicals and detergents. Organic solvents will soften Tredsafe insert.

Tredsafe insert is produced with a polyurethane coating which reduces dirt retention. The three dimensional pyramid pattern which provides excellent slip resistance in the wet will require more care than a smooth flooring surface. As with any flooring, regular maintenance is important to prevent excessive soiling. Cleaning is best achieved by scrubbing with a bristle brush in conjunction with warm soapy water. Commercial cleaning machines such as the "Scrub-Vac" are also suitable

#### Slip Resistance

Inclined Platform Test DIN 51130:2010

**Category: R11**

Slip Resistance BS 7976-2:2002  
Pendulum Test

**PTV Average Dry 57**

**PTV Average Wet 47**

#### Residual Indentation

(2.5mm dial gauge) Mean 0.05mm

#### Dimensional Stability

80°C for 6 hours) 0.12%

#### Moisture Movement

23°C for 24 hours) 0.02%

#### Elastic Property

(Tensile Strength 2.48mj/m<sup>3</sup>)

#### Heat Ageing

(70°C for 15 days) Exudation None,  
Colour Change None

#### Wear Resistance - Taber Abrader

1kg load = 1000 revs.

H18 wheel @ 60 rpm = 0.6gm Weight Loss

#### Flammability and Smoke Density

Flame Spread = 0

Smoke Dev = 7

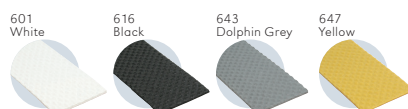
Australian Std Test: 1530.3.1982

Mean Critical radiant flux 10.3kw/m<sup>2</sup>

Mean smoke development rate 85  
percentage minutes

Australian Std Test: AS/ISO 9239.1 2003

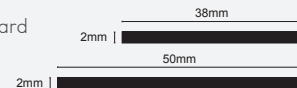
#### Tredsafe® Insert



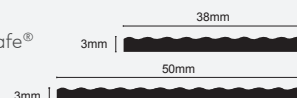
| Insert           | LRV  | SINGLE | DOUBLE |
|------------------|------|--------|--------|
| <b>Standard</b>  |      |        |        |
| 01 White         | 79.9 |        |        |
| 16 Black         | 4.5  |        |        |
| 20 Brown         | 9.1  |        |        |
| 25 Beige         | 41.1 |        |        |
| 27 Canvas        | 53.2 |        |        |
| 30 Red           | 10.6 |        |        |
| 43 Dolphin Grey  | 27.6 |        |        |
| 44 Ice Grey      | 42.1 |        |        |
| 46 Midnight Grey | 12.8 |        |        |
| 47 Yellow        | 55.7 |        |        |
| 48 Cobalt Blue   | 9.2  |        |        |
| 58 Cloud         | 58*  |        |        |
| 68 Haze          | 66*  |        |        |
| 78 Sand          | 77*  |        |        |
| <b>Tredsafe®</b> |      |        |        |
| 601 White        | 82.7 |        |        |
| 616 Black        | 4.8  |        |        |
| 643 Dolphin Grey | 18.2 |        |        |
| 647 Yellow       | 46.1 |        |        |

### Inserts

#### Standard

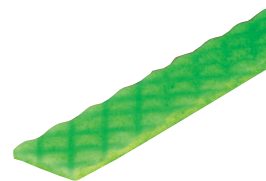


#### Tredsafe®



# Aluminator® Insert

Product Datasheet 10.22



## Description

Aluminator® insert is resistant to attack from ultraviolet light, oil, grease, petrol, salt, dilute acids and alkalis, common household chemicals and detergents. Organic solvents will soften Aluminator® insert.

Aluminator® insert is produced with a polyurethane coating which reduces dirt retention. The three dimensional pyramid pattern which provides excellent slip resistance in the wet will require more care than a smooth flooring surface. As with any flooring, regular maintenance is important to prevent excessive soiling. Cleaning is best achieved by scrubbing with a bristle brush in conjunction with warm soapy water. Commercial cleaning machines such as the "Scrub-Vac" are also suitable

### Slip Resistance

Inclined Platform Test DIN 51130:2010

#### Category: R11

Slip Resistance BS 7976-2:2002

Pendulum Test

**PTV Average Dry 57**

**PTV Average Wet 47**

## Slip Resistance

The UK slip resistance group recommends the following guidelines;

| PTV        | Slip Potential |
|------------|----------------|
| 0-24       | High           |
| 25-35      | Moderate       |
| <b>36+</b> | <b>Low</b>     |

Slip-resistance tests have been independently undertaken by Lucideon Ltd using the pendulum and inclined platform test.

### Fields of Application

Exceptional weather and light fastness make Aluminator® inserts suitable for interior and exterior use.

## Composition Description

The Aluminator® polymer is a unique Co-polymer blend utilising ethylene-propylene rubber with homo-polypropylene. This grade is a hard wearing, durable plastic compound. The blend is suitable for interior and exterior use. Testing shows good impact resistance at low temperatures.

## Technical Details

| Description   | Aluminator® Lumitred                   |
|---|--|
| Chemical Identity   | Europium doped Strontium Aluminate     |
| Colour  | Green                                  |
| Peak Wavelength   | 520nm                                  |
| Afterglow Brightness (Measured in Milli Candelas after 10 mins excitation)        | 455 mcd/M <sup>2</sup>                 |
| Afterglow duration (Time taken to reach an afterflow of 0.32 mcd/M <sup>2</sup> ) | >3000mins                              |
| Highly Visible Afterglow duration   | >600mins                               |
| Light Fastness  | Excellent                              |
| Chemical Stability  | Excellent                              |
| UV Stability  | Balance                                |
| Intended Use  | Light Stablilty of Polyolefin Polymers |
| Loading   | 2%                                     |

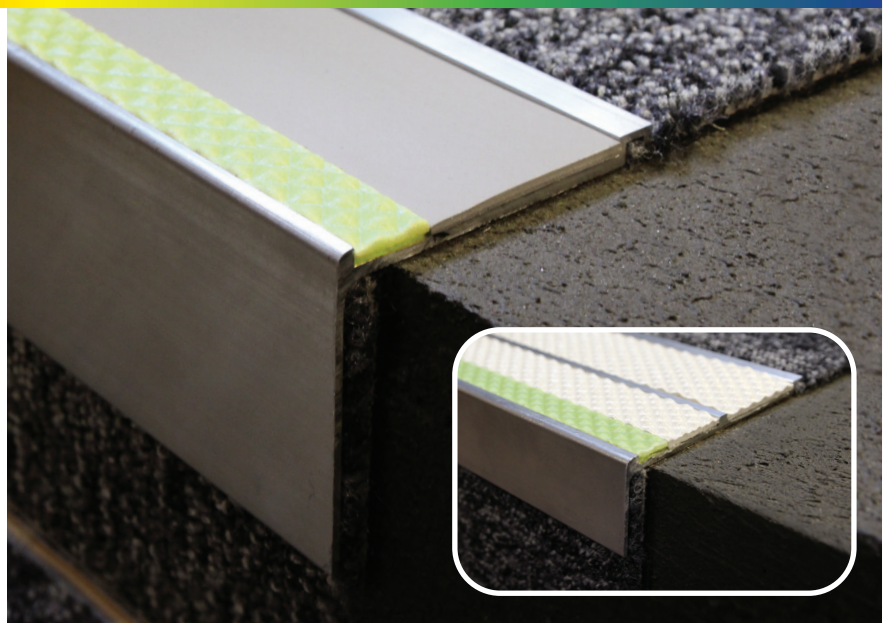
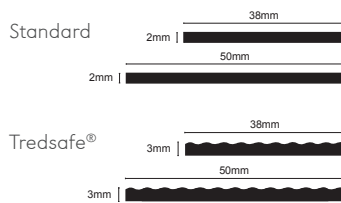
## Physical Properties

| Physical  | Test Method | Nominal Value                           | Test Method | Nominal Value                          |
|---|-------------|---|-------------|--|
| Melt Flow Index                                       | ISO 1133    | 1.0 g/10min                             | ASTM D1238  | 1.0 g/10min                            |
| Density   | ISO 1183    | 0.90 g/cm <sup>3</sup>                  | ASTM D792   | 0.9 g/cm <sup>3</sup>                  |
| <b>Mechanical</b>                                     |             |   |             |  |
| Tensile Stress (Yield)                                | ISO 527-1   | 290 kgf/cm <sup>2</sup><br>28 Mpa       | ASTM D638   | 290 kgf/cm <sup>2</sup><br>31 Mpa      |
| Tensile Stress (Break)                                | ISO 527-1   | >100%                                   | ASTM D638   | >100%                                  |
| Flexural Modulus                                      | ISO 178     | 12,500 kgf/cm <sup>2</sup><br>1,323 Mpa | ASTM D790   | 13,500 kgf/cm <sup>2</sup><br>1,320Mpa |
| <b>Impact</b>   |             |   |             |  |
| Notched Izod Impact Strength (23°C)                   | ISO 180     | 40 kgf.cm/cm<br>392 J/m                 | ASTM D256   | 40.0 kgf.cm/cm<br>490 J/m              |
| Notched Izod Impact Strength (10°C)                   | ISO 180     | - kfg.cm/cm<br>- J/m                    | ASTM D256   | 4.5 kgf.cm/cm<br>44 J/m                |
| <b>Thermal</b>  |             |   |             |  |
| Heat Deflection Temperature (4.6kgf/cm <sup>2</sup> ) | ISO 75-1    | 112°C                                   | ASTM D648   | 110°C                                  |
| Vicat Softening Point                                 | ISO 306     | 153°C                                   | -           | -                                      |
| <b>Additional Property</b>                            |             |   |             |  |
| Flammability  | UL94        | HB                                      | UL94        | HB                                     |

# AHD

## Product Datasheet 10.22

### Inserts



### Product Description

In addition to the function of step edge protection the Aluminator® range 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 to 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. The highly durable and slip resistant silicone carbide is suitable for external use, ideal for both commercial and domestic applications where public safety is paramount.

The diverse range can be used on a wide variety of substrates such as concrete, timber, tiles, vinyl, steel and checker plate with inserts available in a wide array of colours promoting the visibility while complimenting the aesthetics.

### Dimensions

Stock Lengths are available in 2.46m, 2.77m and 3.22m with a selection of non-slip PVC inserts.

Profiles can be anodised and cut to length upon request.

### Technical Details

Chemical composition: In accordance with BS EN 573-3:2003 Aluminium and aluminium alloys. The trace elements of the composition which determine the alloy selected are 6063 Thermal Treatment designations: T6. To the best of our knowledge the best in the market.

Manufacturing Tolerance: In accordance with BS EN 755.

#### 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  |

### Slip Resistance

The UK slip resistance group recommends the following guidelines;

| PTV   | Slip Potential |
|-------|----------------|
| 0-24  | High           |
| 25-35 | Moderate       |
| 36+   | Low            |

Slip-resistance tests have been independently undertaken by Lucideon Ltd using the pendulum and inclined platform test.

### Aluminium Extrusion Standard

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

### 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.

+44 (0)1642 713000 info@genesis-gs.com  
www.genesis-gs.com

 **Genesis**  
For the Perfect Finish