

Technical Datasheet - Stair Nosings

Aluminium Tile-In Aluminator™ - ALM

Product Description

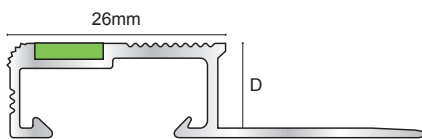
In addition to the function of step Edge protection the Aluminium Tile In Aluminator™ offers an easy, energy efficient solution to illuminate steps. Should a local or emergency power failure occur on stairways, increasing the risk of hazard for evacuees, the Aluminator™ system allows the evacuee to orientate, 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

All profiles available in 2.6m lengths. Profile finish Matt Silver as standard (finish code 81).



Range



Maintenance

Genesis ALM 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 normal use. The surface, however, 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.

Installation

1. Select ALM according to tile thickness.
2. Trowel tile adhesive over the area that forms the perimeter of the tiled covering.
3. Press the perforated anchoring leg of the ALM, into the tile adhesive and align, mechanical fix if required
4. Trowel additional adhesive over the perforated anchoring leg to ensure full coverage.
5. 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).
6. Fill the joint completely with grout.



Genesis
For the Perfect Finish

Technical Datasheet - Stair Nosings

Technical Details

Aluminium

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

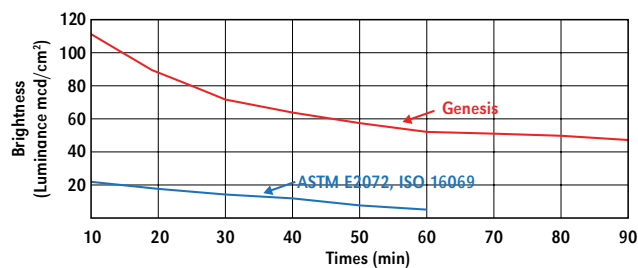
Aluminium Extrusion Standard

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

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

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

Tel: +44 (0)1642 713000

Email: info@genesis-gs.com

www.genesis-gs.com

UK Head Office & Factory
Stokesley Business Park Stokesley
North Yorkshire TS9 5JZ UK



Genesis
For the Perfect Finish

