

NALR & NSLR



Product Description

Commercial style stair nosing incorporating a range of non-slip PVC based inserts and Vision LED, CCT and RGB lighting systems in a 'light down' configuration. Complete with frosted polycarbonate diffuser to ensure optimum light dispersion.

Supplied in anodised Matt Silver finish, other finishes are available on request.

Technical Details

Profiles are available in different anodised finishes and powder coated finishes - All natural Aluminium (Mill Finish) has a oxide film of approx. 0.2 microns, when mechanically and chemically polished the anodising process increases this to 5 microns, up-to 20 for the matt finish and 100 for powder coated.

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
Cr%	<0.01
Al	Balance

Maintenance

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.

External Use

Bright and brushed finishes are not suitable for environments with direct UV exposure or where mechanical cleaning operations occur.

Allied Products:

End caps to complete the professional aesthetic.

Dimensions

Standard length is 2.8m but we offer a bespoke cutting and drilling service if required.



Planning out the installation

We do not advise on locations of power points, this is a conversation to have with an electrician, we would suggest that power points should be planned in with any majors works or look at where the power can come from and that you should consider the exit point of the lights (further comments below).

With 12v product, we recommend that a maximum of 10m of LEDs is ran off a driver due to voltage drop which will result in a dimmer LED.

Please consider the placement of receivers and drivers during the installation and that they should be permanently accessible.

Installation of the LEDs into the profile

1. Ensure the surface is clean and dust free by using a 3M surface prep wipe. Allow 2 minutes for the surface to dry.
2. If you need to reduce the length of the strip, partially peel back the red tape on the reverse of the strip.
3. Cut the strip at the indicated cut points using a pair of sharp scissors.
4. Peel back the remaining red tape and install the LED strip as desired.
5. Plug the power lead into the connector block on the LED driver.

We recommend that the tape is cut a cut shorter inside the profile, so that the shrink wrap has room to sit inside the profile.

Nosing 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.

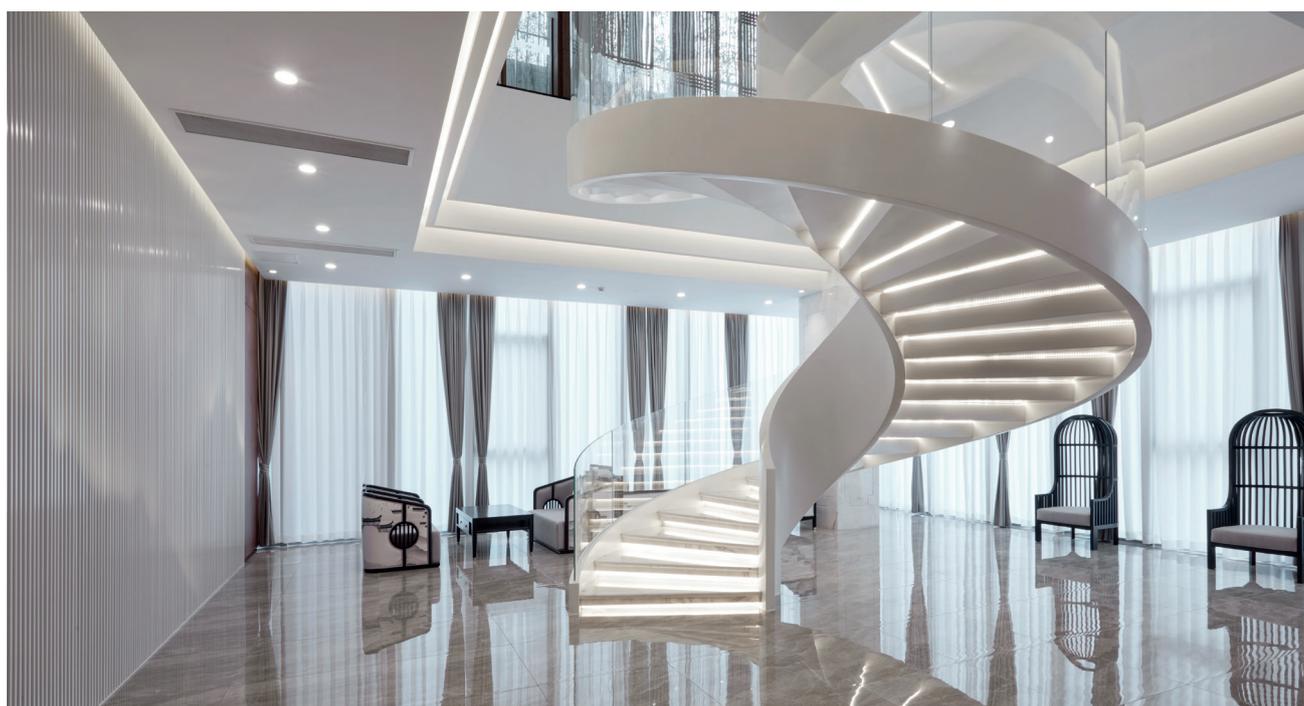
Inserts: All inserts should be cleaned using a neutral detergent and thoroughly rinsed with clean water. Ensure all inserts are dry prior to receiving foot traffic.

Insert Options (see details overleaf)

Standard Insert



Tredsafe® Insert



Standard Inserts

Standard PVC Insert

A REACH compliant flexible PVC extrusion grade specifically 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

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

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

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/m³)

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/m²
 Mean smoke development rate 85 percentage minutes

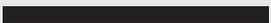
Australian Std Test:
 AS/ISO 9239.1 2003

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

The UK slip resistance group recommends the following guidelines;

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

Insert	LRV	
Standard		
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	59	
68 Haze	66.2	
78 Sand	70.3	
Tredsafe®		
601 White	49.9	
616 Black	4.6	
621 Safety Blue	10.8	
643 Dolphin Grey	11.5	
647 Yellow	48.1	
Standard		
	50mm	
		3.4mm
Tredsafe®		
	50mm	
		3.5mm

International testing houses consider the following guidelines;

Ramp	Slip Potential
R9	High
R10	Normal
R11	Low
R12	Very Low

Results

Insert	Inclined Platform Test DIN 51130:2010* 22.9°	Category	Pendulum Test BS 7976-2:2002#	
			Dry	Wet
Standard	22.9°	R11	66	54
Tredsafe®	24.7°	R11	57	47

*Average of Six Shod Results (Corrected). #PTV Average Value.

Potential of slipping

