



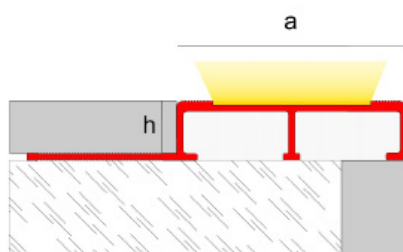
Novopeldaño® Lumina Plus



Profile designed to be installed as a stair nosing protector. This profile has a photoluminescent strip that acts as a guide in case of sudden darkness. The profile has two sides with a non-slip striated area. Once installed, remains totally integrated in the installation.

General features

Material: Anodized aluminium matt silver+ photoluminescent strip



Reference	Width (a):	Height (h):	Length (m):
NPLUPAL10PL	44 mm	10 mm	2,5 m
NPLUPAL12PL		12 mm	
NPLUPAL10PL1	44 mm	10 mm	1 m
NPLUPAL12PL1		12 mm	

Applications

Novopeldaño® Lumina Plus is a profile designed to be installed as stair nosing. Its photoluminescent strip is classified as class B according to the UNE 23035:4 (2003) and exceeds the requirements established for that class.

Novopeldaño® Lumina Plus is ideal for public areas such as airports, hotels, hospitals, etc as it remains totally integrated with the installation and avoids projections.

Materials

Aluminium The base of Novopeldaño® Lumina Plus is a profile made by extrusion of aluminum. These profiles have been anodized, improving through this process their corrosion and mechanical resistance and their appearance.

Aluminum is a material with excellent chemical, physical and mechanical properties. It is lightweight, tough, ductile, malleable and highly durable.

Photoluminiscent

strip The strip of Novopeldaño® Lumina Plus is a 0,35 mm. thickness polymer with photoluminescent material classified as Class B according to the UNE 23035/4:2003 Standard. Suitable for outdoors and indoors, it can be cleaned with water and neutral soap and does not have significant content of phosphorus or plumb. Does not darken when placed outdoors.

Technical Features and tests

Alloy	6063 L-3441	AA y ASTM UNE 38-301-89
Fire resistance	M0	UNE 23-727-90
Abrasion resistance	Very good	
Lightfastness	Excellent	
Appearance and color	EN 12373-1	
Luminescence(*)	Class B	UNE 23035/4:2003

(*) Minimal luminescence features after salt spray test.

Exposition time	Certified values	Real values	Values UNE 23035-4(2003): Class B
Luminiscence 10 minutes:	150 mcd/m ²	200 mcd/m ²	40 mcd/m ²
Luminiscence 60 minutes:	20 mcd/m ²	27 mcd/m ²	5,6 mcd/m ²
Decay time:	2000 minutes	2500 minutes	800 minutes

How long does Novopeldaño® Lúmina Plus glow?

FLUORESCENT (4000K/20 LUX) Poorly lit areas

Exposition time	Hours of visibility until 5 mcd/m ²	Hours of visibility until 0,3 mcd/m ² (UNE 23035/4)
5 minutes	0,46 h	21 h
10 minutes	1 h	28 h
20 minutes	1,9 h	33 h
30 minutes	2,3 h	33 h

FLUORESCENT (4000K/150 LUX) Reasonably lit areas

Exposition time	Hours of visibility until 5 mcd/m ²	Hours of visibility until 0,3 mcd/m ² (UNE 23035/4)
5 minutes	2,5 h	33 h
10 minutes	3,36 h	41 h
20 minutes	3,75 h	46 h
30 minutes	3,75 h	46 h

FLUORESCENT (4000K/300 LUX) Well lit areas

Exposition time	Hours of visibility until 5 mcd/m ²	Hours of visibility until 0,3 mcd/m ² (UNE 23035/4)
5 minutes	3,16 h	40 h
10 minutes	3,8 h	46 h
20 minutes	3,8 h	46 h
30 minutes	3,8 h	46 h

These charts represent how long does Novopeldaño® Lumina remain visible under a more demanding requirement (5 mcd/m²) or according to the decay time indicated in the UNE 23035/4 standard (0,3 mcd/m²) after being exposed to different energy intensities.

Installation

1. Spread a big amount of thin-set mortar on the surface of the riser.
2. Place the tile on the riser and press to get an optimal adherence.
3. Then, spread a big amount of thin-set mortar on the tread and align the profile on its vertex so it rests on the riser (Do not let overhang, the leverage may remove the step and the tiles). Then press so the thin-set mortar could pass through the mechanized holes of the anchoring wing.
4. Place one tile on the tread, align it to the profile and press to get a perfect adhesion. You can tap it softly with a rubber hammer.
5. Clean the possible leftover material and let dry.

To get a perfect functionality, Novopeldaño® Lumina Plus should be installed in areas with direct sunlight or areas with enough artificial light. If the profile is installed in poorly lit or shadow areas, its operation will be inappropriate. Novopeldaño® Lúmina Plus needs an initial input of energy to transform it into light.

Novopeldaño® Lumina Plus can be installed with the photoluminescent strip on the tread or the riser. If it is an ascending evacuation stair, install the profile with the photoluminescent strip on the riser. If, on the contrary, it is a descending evacuation stair, place the strip on the tread.

Cleaning and maintenance

Novopeldaño® Lumina Plus resists water and detergents. The product must be cleaned periodically with a soft cloth. If you use a neutral liquid cleaner, you must rinse the profile with cold water and dry it to remove the humidity excess. The persistent dirtiness can be removed by using cleaning approved agents lightly abrasive or a grid covered with polished powder neutral. If a preserving agent is applied, as well as keep a very thin layer of water repellent, note that it can't be yellow, attract dust or dirt or have iridescent effects.

Steel wool, abrasive cleaners, souring products as well as strong acids (hydrochloric and perchloric), strong bases (caustic soda or ammonia) or carbonated solutions are not recommended. Citric acid is neither recommended because dissolves the protective layer of the surface of aluminium. Waxes, petrolatum, lanolin or similar substances are not appropriate. Solvents containing haloalkanes (hydrofluoroether and chlorinated solvents) and curing accelerators containing chlorides should not be used (use special accelerators free of chlorides).

Technical Information

You can find out more information about the technical features of Emac®'s products by downloading their Technical File from www.emac.es.

If you have any query please contact our Technical Department in tecnico@emac.es