

1. Name of the product

Ⓢ Everlux® Step protection.

2. Product details

Anti-slip aluminium profile with Ⓢ Everlux®-LLL polycarbonate strips, anti-slip in the front and top part.

Ⓢ Everlux® Step protection was developed to protect the “face of the steps”, giving them anti-slip and photoluminescent characteristics by the inclusion of grooves in the full length of the profile and Ⓢ Everlux®-LLL photoluminescent polycarbonate strips.

It consists of a 90° profile that allows the identification of the limits of a step in both descending and ascending evacuation situations, even in situations of power cuts or power failure.

Ⓢ Everlux® Step protection profile is supplied with double-sided high-adherence adhesive which guarantees an easy and quick installation.

3. Photoluminescent properties

Ⓢ Everlux® Products meet the International Norms, namely ISO 16069, ISO 17398 and IMO A.752 [18] Resolution.

- When stimulated with ambient light of only 1000 lux during 5 minutes, the photoluminescent characteristics are as follows:

Time after removing the exciting light (in minutes)	Luminescent intensity (mcd/m ²)		
	Everlux LLL	ISO 16069	ISO 17398 (Class C)
10 minutes	150 ⁽¹⁾	140	140
60 minutes	21 ⁽¹⁾	20	20
Luminescent intensity 100 times greater than the limit of human visibility	Period of light decay (minutes)		
0.3 mcd/m ²	2000 ⁽¹⁾	1800	-

⁽¹⁾The luminescent intensity of the non-slip self-adhesive strips on the floor may be lower due to the protective layer of the polycarbonate.

Technical Characteristics

Step protection

- In conditions of stimulation with a surrounding light of only 25 lux for 15 minutes, they show the following photoluminescent properties:

Time after the stimulation has finished:	Luminance (mcd/m ²)
10 minutes	80 ^[2]
60 minutes	10 ^[2]
Luminance Value 100 times above the limit of visibility of human sight	Autonomy (minutes)
0.3 mcd/m ² .	1000 ^[2]

^[2]The luminescent intensity of the non-slip self-adhesive strips on the floor may be lower due to the protective layer of the polycarbonate.

4. Reaction to abrasion and slippery conditions

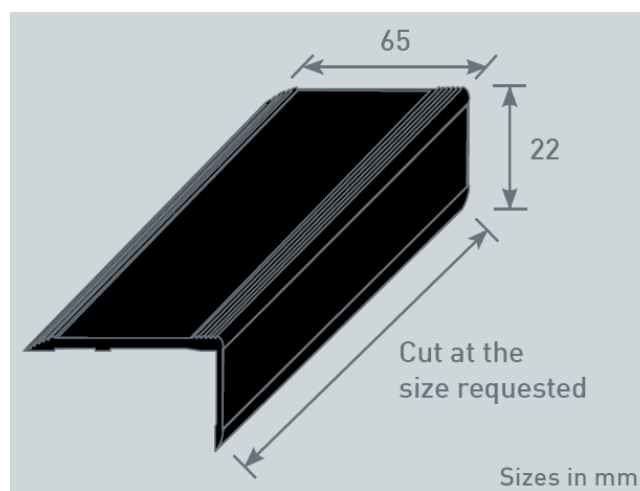
Please see the Technical details of the Everlux-LLL products.

5. Dimensions and Colour

Colour of the step protection: grey (aluminium's natural colour)

Dimensions:

Step protection



6. Installation

The installation of the product should follow the following indications:

Preparation of the application surface:

All surfaces on which signs are to be installed shall be considered as contaminated.

Cleaning and Degreasing - For this operation a degreasing solution must be used; for example isopropyl alcohol in the proportion 70% isopropyl alcohol and 30% water.

The cleaning operation must be done in two phases:

- 1st apply the degreasing solution to the surface and clean the whole surface in circular movements with paper or cloth that does not leave residues, in order to remove dirt and grease.
- Apply the degreasing solution to the surface and clean only in one direction only.

Drying - Let it dry, waiting 2 to 3 minutes until all cleaning solution evaporates. Do not touch the previously cleaned and degreased surfaces with your fingers.

Product application

Removal of the protective paper from the sign adhesive - Remove the self adhesive backing paper in one corner of the product without touching the adhesive.

Application of the product - Apply the sign in the previously prepared place, avoiding the formation of bubbles and exerting pressure throughout the sign area. It is recommended to use a roller for better distribution of forces throughout the surface.

The quality of the adhesion will depend on the amount of contact between the adhesive and the installation surface. A strong, homogenous pressure promotes union.

The application should be made at the room temperature between 15°C and 25°C, and never be less than 15°C.

Once applied, at the recommended application temperature, possible temperature changes are generally well tolerated by the glue, without modifying the adhesion properties of the glue.

Adhesion time - Until adhesion is considered complete, some time is required: approximately 50% final adhesion is obtained after 20 minutes, 90% after 24 hours and 100% after 72 hours (at room temperature).

Caution - before installation it is essential that the installer evaluate the surface where the signs are to be installed:

Rough or porous surfaces

A rough or porous surface will not allow the application of self-adhesive elements and may require installation by screwing.

Parallelism of the surface to be installed

Surface parallelism is essential to adhesion quality. On surfaces where there is no complete parallelism, the need for alternative installation solutions such as mastic glue or structural glue, or bolting to support structures or directly to the surface, must be considered.

Special surfaces

Some surfaces have special characteristics such as the presence of coatings that impart specific characteristics to the surfaces. This type of surface usually has a low surface energy and may require special preparation (eg primary application). It is the responsibility of the installer to evaluate the surface and, if necessary, to ask the manufacturer for instructions on the correct preparation of the surface.

Examples are the following materials: Polypropylene (PP), Polystyrene (PS), Polyolefin Thermoplastic (TPO), Polytetrafluoroethylene (PTFE), Polybutylene Terephthalate (PBT), Polyvinylidene Fluoride (PVDF), Polyurethane (PU), among others

7. Cleaning

These products do not require any special care, and may be cleaned with only a cloth, dry or dampened in water (with no detergent).

8. Guaranty

Under suitable conditions of application and in indoor environment and proper cleaning, a guarantee of 3 years is provided against defects of manufacture.

Exposure to the following conditions may affect the durability of the product:

- Submersion or jets of water, as well as humid environments and leaks may reduce the strength of the product and as such the warranty period.
- For outdoor applications, considering the possibility of exposure to temperature and other extreme environments, this period may be shortened.

The adhesive used in the floor profiles is composed of a double-sided polyethylene foam impregnated with an adhesive that allows immediate fixing.

For a longer product life, consideration should be given to the type and state of the application surface, the type of movement to be subjected and the methods of cleaning. Refer to point 6 of this data sheet.

9. Health and Safety

These products do not contain any radioactive substances. In terms of toxicity they are considered "Safe Products" (European Norm EN 71-3).

10. Quality and Certification

Their quality is guaranteed by a process of strict quality control tested in an appropriate laboratory observing the applicable Norms.

11. legal framework

All  **Everlux**[®] signs fully comply with the Norms and Legislation in force, namely:

- ISO 16069
- ISO 15370 (Maritime Area)
- Norms ISO 3864
- ISO 7010
- IMO Resolution A.752 (18)
- NFPA 101 – Life Safety Code
- DIN 67510 Norms