

1. Product designation

Ⓢ **Everlux®-RL** - Reflecto-luminescent Safety Signs

2. Product description

A new product at global level, with the advantage of combining two concepts in signs: the photoluminescent sign and the retro-reflective sign.

Made of composite aluminium with 3mm thickness, coated in one of the sides with a retro-reflective film where a layer of photoluminescent paint is applied.

Signalling system with a double functionality:

- By incidence of external light (from the vehicles) it reacts as a retro-reflective product, i.e., the light is sent back in the same direction it come from, allowing the total visibility of the object;
- In the complete absence of light, it acts as a photoluminescent product: having absorbed the luminous radiation while exposed to the surrounding light (or the light from the vehicles) and in a black-out situation, the signs will remain visible.

Everlux has developed this new signalling system to sign places with mixed traffic of people and vehicles (car parks, warehouses, industrial and building sites, mines, etc)

3. Application

According to Everlux Catalogue, in the Chapter "Everlux-RL".

4. Fire reaction

Non flammable, self-extinguishing (old class of fire reaction-M1)


5. Retro-reflective Properties


The retro-reflective fabric used in the Ⓢ **Everlux®-RL** products meets all the coefficient values of retro-reflection specified in the European Norm EN 12899-1 for vertical signs.

Considering a 0.2° angle of observation and a +30 entrance angle, the values for the retro-reflection coefficient are the following:

Retro-reflective fabric in white	Retro-reflection coefficient $\left(\frac{\text{cd}}{\text{lux.m}^2} \right)$
EN 12899-1	30
Ⓢ Everlux®-RL	30

6. Photoluminescent properties

The  **Everlux®-RL** products demonstrate the following photoluminescent properties:

Norms	Luminance properties (mcd/m ²)		Period of light decay (minutes)
	10 minutes	60 minutes	Luminance intensity greater than a 0.3 mcd/m ²
 Everlux®-RL	57 ⁽¹⁾	7 ⁽¹⁾	845 ⁽¹⁾
	28 ⁽²⁾	3.6 ⁽²⁾	460 ⁽²⁾
	20 ⁽³⁾	2.9 ⁽³⁾	380 ⁽³⁾

⁽¹⁾ Values obtained in tests by stimulation with a Xenon bulb, with 1000lux for 5 minutes, according to DIN 67510-1.

⁽²⁾ Values obtained in tests by stimulation with an OSRAM L18W/765 daylight effect bulb (6500 K), with 25lux for 15 minutes.

⁽³⁾ Values obtained in tests by stimulation with an OSRAM L18W/840 white light bulb (4000 K), with 25lux for 15 minutes.

7. Dimensions, Pictograms and Colours

In conformity with Everlux catalogue, in accordance with the National and International Rules and Norms in force.

8. Printing

By serigraphy with transparent high quality paint resistant to UV rays.

9. Cleaning

Products that do not require any special care and that can be cleaned manually and gently with a dry or wet cloth dampened with water (with no detergent).

10. Guaranty

In normal fixing conditions and with the appropriate cleaning procedures, we offer a 3-year guaranty.

Considering that in outdoor applications the signs will be permanently exposed to temperature changes, humidity and other extreme conditions, we provide a warranty for 1 year and 6 months.

11. Health and Safety

The products do not contain radioactive substances. In terms of toxicity, it is considered a safe product (European Norm EN 71-3).

12. Quality and Certification

Their quality is guaranteed by a strict process of quality control, using testing methods in our own laboratory and complying with the applicable Norms.

13. Legal framework

All our signs fully comply with the Norms and Legislation in force, namely:

- ISO 16069
- Norms DIN 67510
- EN ISO 7010
- Norms ISO 3864
- BS 5499-4
- European Directive 92/58/CEE