Everlux®

Photoluminescent maritime safety signs

How to Order

All Everlux® and Everlux®-LLL signs have a unique 5 digit code.

To order you need to indicate the following:

1. The product code;
2. The size (mm);
3. The type of sign (see page 5). If not indicated we will supply Type 1;
4. The material of the sign.

(*)Example:

(mm)
300x100
400x120

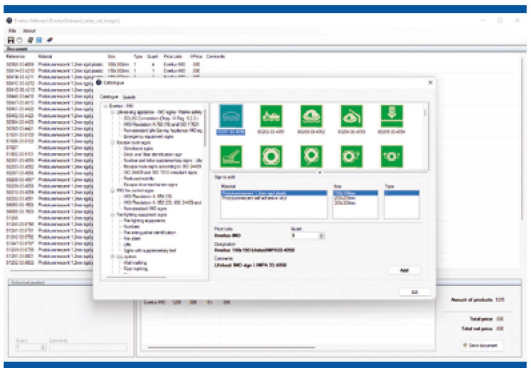
Most of the Everlux® signs are available in photoluminescent rigid plastic (**F**) and photoluminescent self-adhesive vinyl (**Z**). There are several product ranges with different base materials. The complete list of sign base materials is:
F - photoluminescent rigid plastic; **Z** - self-adhesive vynil; **O** – white rigid plastic; **V** – white self-adhesive vinyl;
VT - transparent - self-adhesive vinyl; **PC** – non-slip self-adhesive photoluminescent polycarbonate;
T – aluminium composite; **TA** – transparent acrylic; **FA** – frosted acrylic; and **SS** – stainless steel.

(*) The sign on this example is available in the following sizes 300x100 and 400x120; in Type 1, 2 or 3; and in photoluminescent rigid plastic and self-adhesive photoluminescent vinyl.
To order the above sign in 400x120, Type 1 and in photoluminescent rigid plastic you order: S 03 75 – 400x120 – Type 1 - F.
It is also possible to order by IMPA or ISSA codes. Please refer to the cross reference guide on pages 97 – 102 to find the equivalent Everlux® item code.

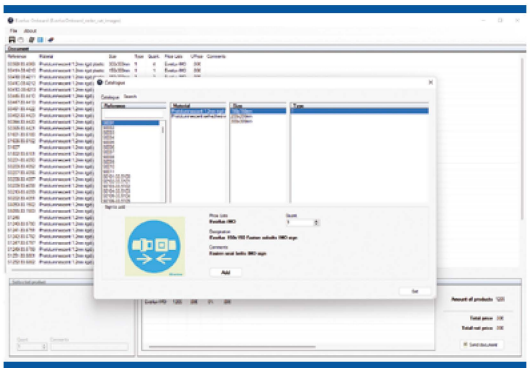
Everlux® Onboard

Everlux® ONBOARD

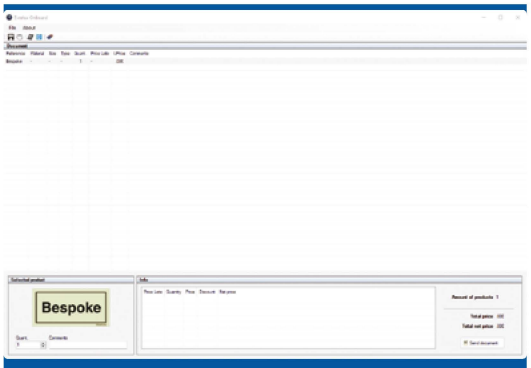
The Everlux® Onboard software tool was developed aiming to simplify the quote and ordering process.



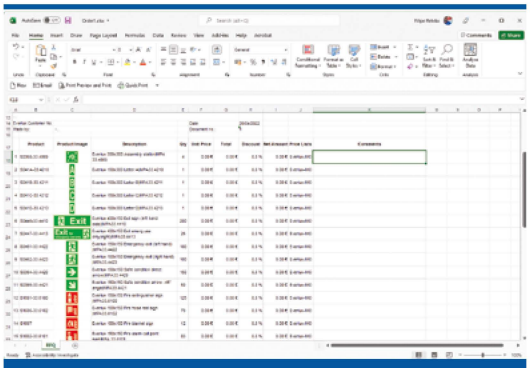
It allows the user to browse the complete Everlux Maritime catalogue and to build the list of desired signs by selecting item codes, base materials, sizes and types.



The tool contains a search option that makes it very easy to find a specific sign by using the Everlux or the IMPA item codes.



It is also possible to include custom made signs by selecting the "Bespoke" icon and including a detailed description of the features required such as material, size, colour(s), graphical content, supplementary text, and quantity.



Once all of the required safety signage is selected, the user can automatically generate an editable Excel file containing the list of signs and all associated information, including images, that can be used in your quoting and ordering processes.

The Everlux® Onboard software tool is available for free.
Please e-mail us at **commercial@everluxmaritime.com** and request your download link.

Technical Properties of Photoluminescent Safety Signs

Quality, Standards & Certification:
Everlux® photoluminescent products are manufactured to the highest technical standards using state of the art equipment; thus ensuring we offer the best available photoluminescent quality for safety signs.
Everlux® photoluminescent safety signs comply with IMO Resolutions, Solas Convention and ISO Standards.
Everlux® products have Type Approval by Lloyd's Register and are MED certified by DNV.

Technical Properties:

LUMINANCE PROPERTIES			
Applicable Standards and Resolutions/ product	Luminescent intensity (mcd/m²) (After removing the exciting light)		Period of light decay
	10 minutes	60 minutes	Luminance Intensity greater than a 0.3 mcd/ m²
IMO Res. A.752(18)	15 mcd/m²	2 mcd/m²	...
ISO 15370	15 mcd/m²	2 mcd/m²	...
Everlux® (a)	140 mcd/m²	20 mcd/m²	1800 minutes
Everlux® (b)	57 mcd/m²	10.7 mcd/m²	3000 minutes

a) According to DIN 67510 measurement protocol;
b) According to ISO 15370 measurement protocol.

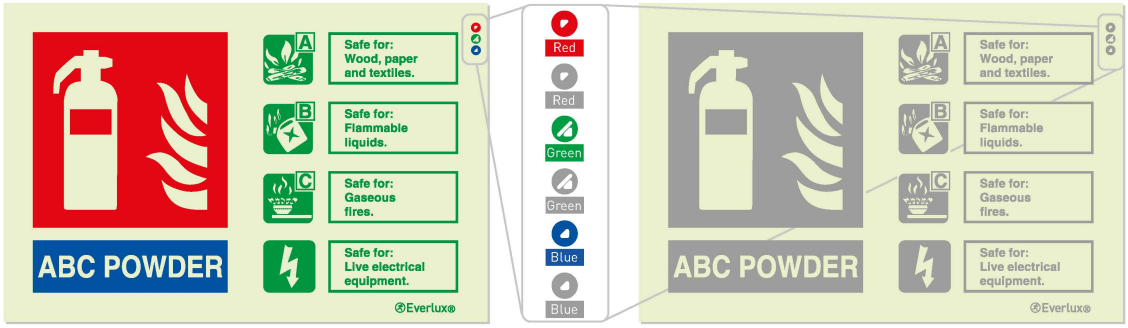
Photoluminescent signs: Photoluminescent rigid plastic 1.2 thickness and self-adhesive photoluminescent vinyl.
Printing: Serigraphy, high quality gloss paint with UV resistance and an indoor durability in excess of 5 years.
Fire resistance: Flame retardant according to IEC 60092-101: 2018 and IMO FTPC Part 5 (IMO Res. MSC.307(88)).
Surface: Antistatic and easy to clean.
Chemical characteristics: Non-radioactive, non-phosphorous, lead-free and non-poisonous.

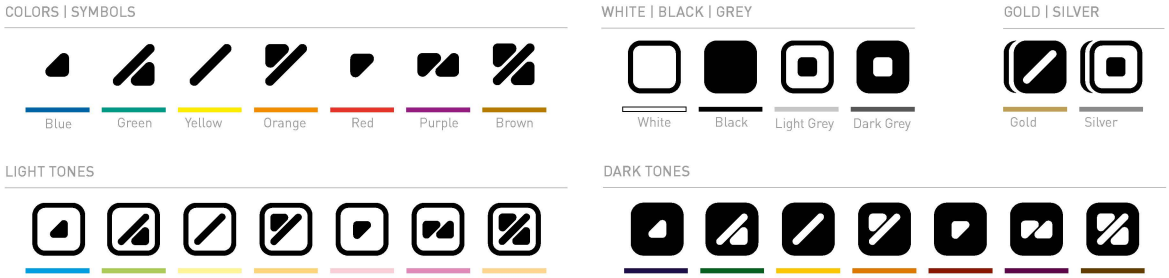
Safety Signage is a Language Comprised of Pictorial Graphics, Shapes and Colors

Color should be for everyone!
... and because colors are determinant in safety signs, Everlux® has associated with ColorAdd - the color identification system for colorblind people.

ColorAdd is a project which was developed with the goal of allowing colorblind people to correctly identify each color and therefore to contribute for their social integration whilst making communication more effective, responsible and
inclusive. ColorAdd is an extremely intuitive symbolic language that uses the primary colors and their combination to create the entire colors/codes palette.

By including the ColorAdd system, the Everlux® catalogue allows colorblind people to fully comprehend all the components of safety signs.

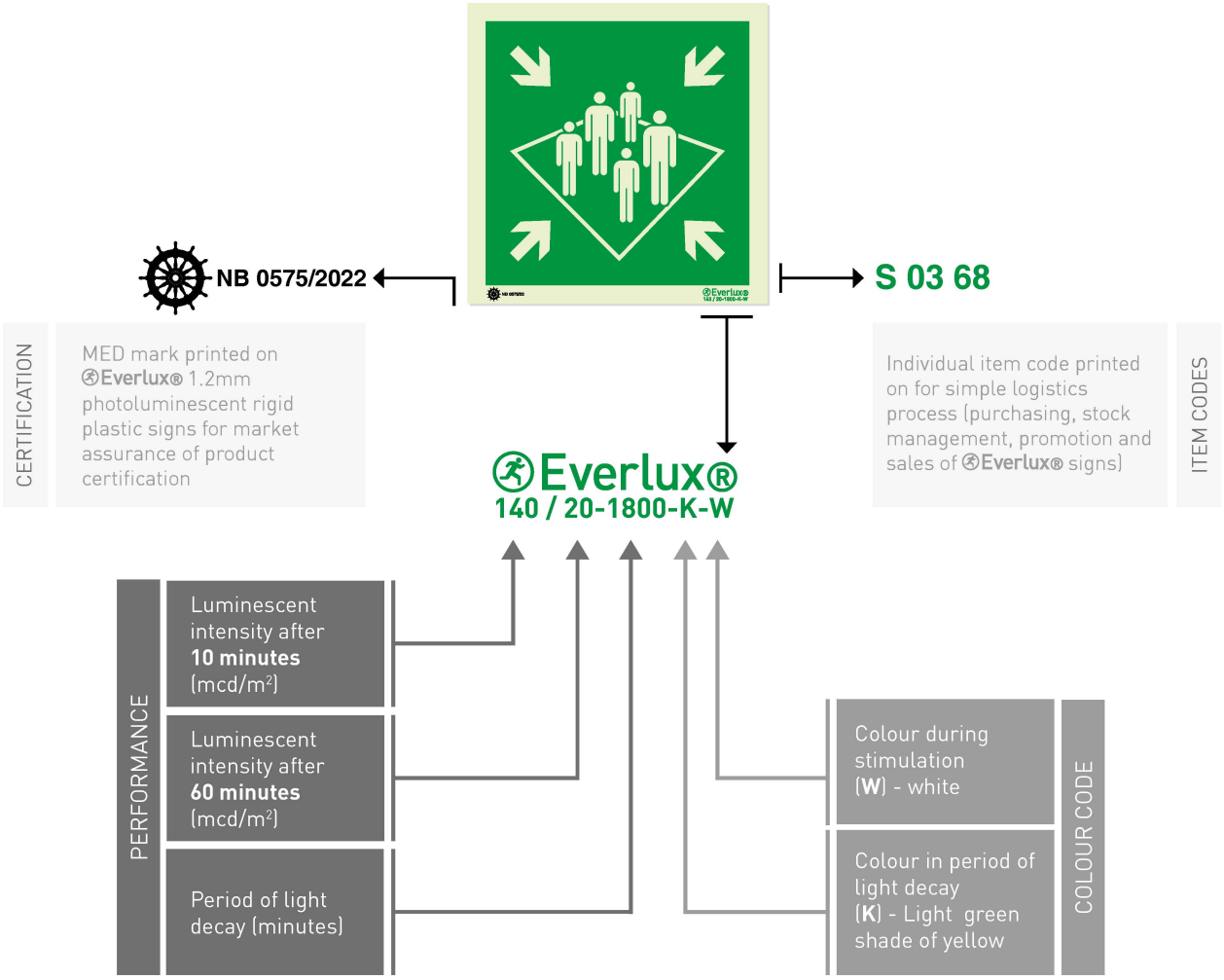




Sign Performance and Technical Properties

Technical guarantees for the market

The photoluminescent properties and performance values are printed on all Everlux® signs as per ISO and DIN Standards requirements. This provides consumers with the correct information and a guarantee of high quality.
Please see the following example:



This brings the signs into alignment with other safety equipment where technical information is provided on the apparatus, e.g. extinguishers.

On all Everlux® photoluminescent safety signs the technical properties are printed and illustrate their performance as per ISO and DIN Standards requirements. This helps specifiers and consumers to make informed decisions about the signs to be used.

The quality of Everlux® safety signs is ensured by maintaining a continuous quality control system.
All Everlux® photoluminescent products have the Lloyd's Register Type Approval Certificate

and are certified by DNV according to MED.

Notified Body nº 0575

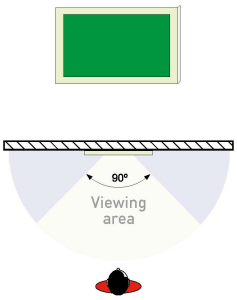
The method of measuring the luminance performance according to ISO and DIN Standards is carried out in the laboratory, where all measuring equipment is calibrated by an accredited and independent official entity.

Different Types of Application - Various Sign Installation Alternatives

For an adequate use of signs they must be mounted according to the appropriate viewing angle.

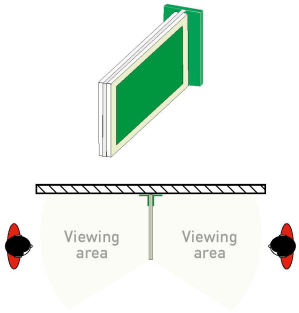
• TYPE 1 (single-sided)

Parallel wall mounted sign.



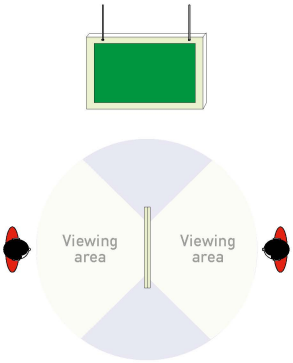
• TYPE 2 (double-sided)

The signs are mounted perpendicularly to the wall by means of a flexible bracket. The bracket consists of a strip that enables the installation of double-sided signs in any location and was developed with the aim of allowing the sign to swing through 180º (+90º and -90º) without breaking.



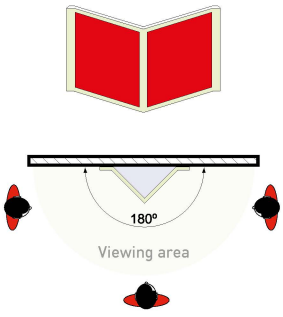
• TYPE 3 (double-sided)

A Type 3 suspended double-sided sign is to be hung from the ceiling. The sign is supplied with holes drilled in the top corners which allow the appropriate fixings to be used (fixings not supplied).



• TYPE P (panoramic signs)

The sign with the greatest visibility. These signs are printed on both exterior surfaces and guarantee a viewing angle of 180º.



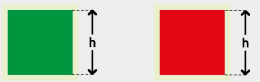
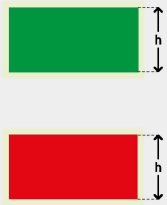
Sizes and Viewing Distances

The size of the sign is defined by the maximum viewing distance from which the sign is understandable.
According to ISO 3864-1:2011, the viewing distance at which a sign of a particular size is conspicuous and comprehensible depends on the illumination of the sign.

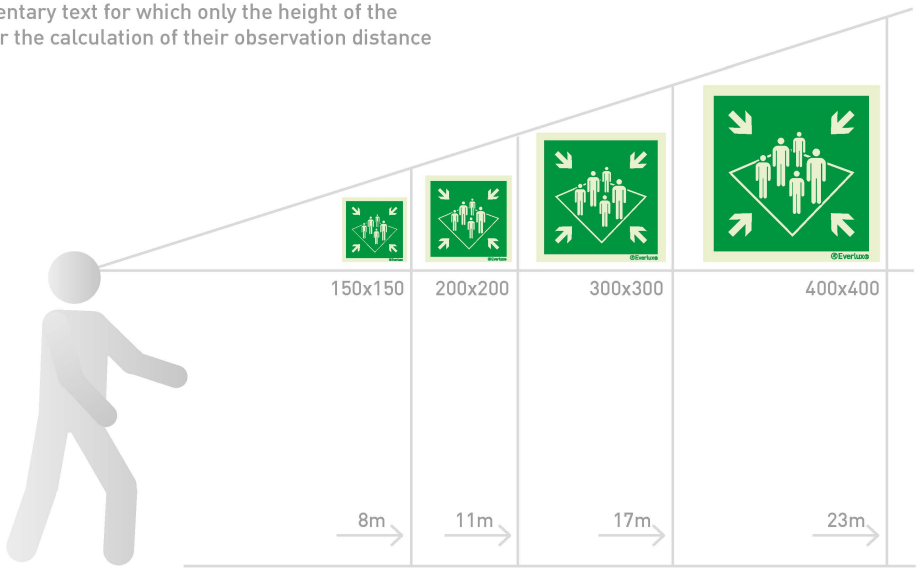
$$l = z_0 x h$$

Where: l - is the observation distance (m);
z_0 - is the distance factor;
h - is the height of the sign (m).

Life-Saving and Emergency Equipment, Escape Route and Fire Fighting Equipment Signs

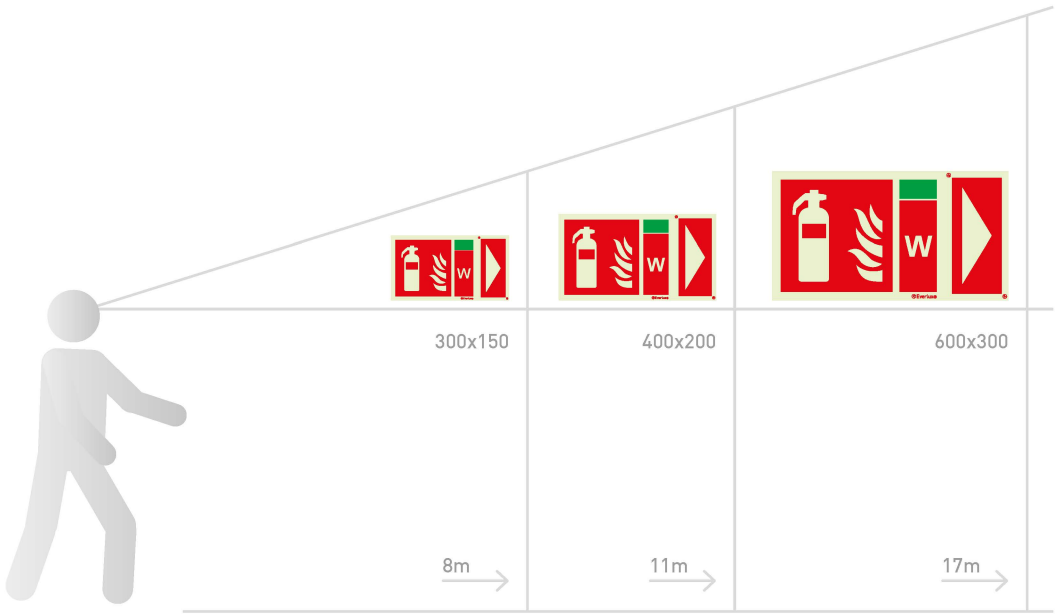
Geometric Shape	Meaning	Everlux® sign sizes (mm)	h height of the sign (mm)	l observation distance (m)
	(z_0=60)	100x100	80	5
		150x150	131	8
		200x200	180	11
		300x300	278	17
		400x400	376	23
	Escape Route and Fire Fighting Equipment Signs (z_0=60)	150x50	36	2
		150x75	55	3
		200x50	36	2
		200x70	55	3
		200x100	80	5
		300x70	57	3
		300x100	80	5
		300x150	129	8
		400x100	78	5
		400x120	98	6
		400x150	129	8
		400x200	180	11
		450x150	129	8
		600x150	129	8
		600x200	180	11
		600x300	276	17
		150x200 (*)	129	8
		200x300 (*)	180	11
		300x400 (*)	276	17

(*) Signs with complementary text for which only the height of the pictogram is relevant for the calculation of their observation distance



Viewing distances

Life-Saving and Emergency Equipment, Escape Route and Fire Fighting Equipment Signs

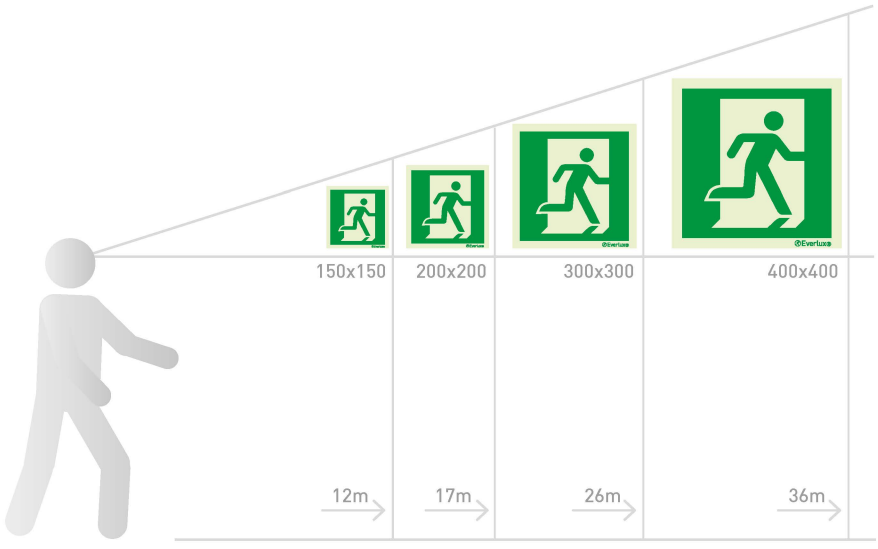


Viewing distances

Exception Signs

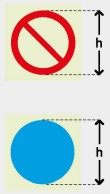
Geometric Shape	Meaning	Everlux® sign sizes (mm)	h height of the sign (mm)	l observation distance (m)
	z_0=95 for S 04 61 and S 04 62 signs as per ISO 7010:2019	150x150	129	12
		200x200	180	17
		300x300	278	26
		400x400	376	36

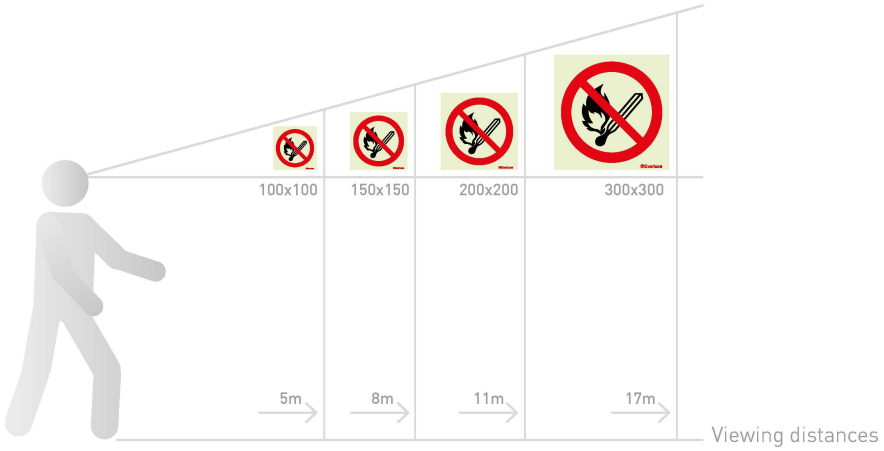
Note: The distance factor (z_0) is assumed as a general value of 60 as defined by ISO 3864-1:2011. For ISO 7010 - S 04 61 and S 04 62 emergency exit signs the recommended value of z_0 is 95 considering an illuminance range between 5 and 100 lux. Over the illuminance range up to about 100 lux, z_0 increases according to ISO 3864-1:2011.



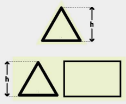
Viewing distances

Mandatory and Prohibition Action Signs

Geometric Shape	Meaning	Everlux® sign sizes (mm)	h height of the sign (mm)	l observation distance (m)
	Prohibition and Mandatory Action Signs (z_0=60)	100x100	80	5
		150x150	131	8
		200x200	180	11
		300x100	80	5
		300x300	278	17
		400x150	131	8
		400x400	376	23



Hazard Signs

Geometric Shape	Meaning	Everlux® sign sizes (mm)	h height of the sign (mm)	l observation distance (m)
	Hazard Signs (z_0=60)	base 100	56	3
		base 150	94	6
		base 200	130	8
		base 300	193	12
		base 400	264	16
		300x100	80	5
		400x150	113	7