Everlux®

PHOTOLUMINESCENT
SAFETY SIGNS FOR

PUBLIC TRANSPORTATION

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04-09
TECHNICAL CHARACTERISTICS

10-28
TRANSPORT TYPES

32-54
SAFETY SIGNS

Technical Characteristics

Photoluminescent Safety Signs

ISO 17398: 2004 - establishes the classification of photoluminescent products according to their luminance properties.

The method of measuring performance is according to ISO 17398: 2004 ↙

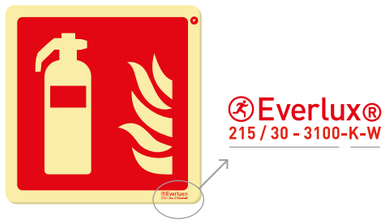
Standards and Regulations	Luminance intensity (mcd/m²)				Period of light decay
	2min	10min	30min	60min	Luminance intensity greater than a 0,3 mcd/m²
ISO 17398 Classe C according to UNECE Regulation 107	690	140	45	20	---
Everlux®	1032	215	70	30	3100 minutes

Performance	
215	Luminance intensity after 10 min (mcd/m²)
30	Luminance intensity after 60 min (mcd/m²)
3100	Luminance intensity greater than a 0.32 mcd/m² (min)
Colour code	
W	Colour during stimulation (w)- white
K	Colour in period of light decay (k) – light green shade of yellow

Performance of the Sign - a Technical Guarantee for the Market

The technical properties are printed on all ®Everlux® photoluminescent safety signs and illustrate their performance as per the requirements of the Standard. This helps specifiers and consumers make an informed decision when considering which safety signs to use. (1)

↘ (1)



Therefore, identification of a product is of significant importance as it guarantees the quality of the product.

Materials - Types and Characteristics

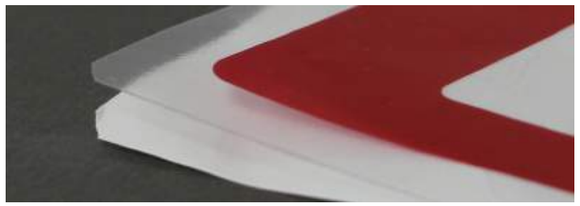
PHOTOLUMINESCENT SELF-ADHESIVE ®Everlux® VINYL

Product Description
Photoluminescent self-adhesive PVC film, 0.32 mm thick, antistatic surface and easy to clean.

WHITE VINYL

Product Description
Self-adhesive PVC film, 0.08 mm thick, antistatic surface and easy to clean.

TRANSPARENT VINYL

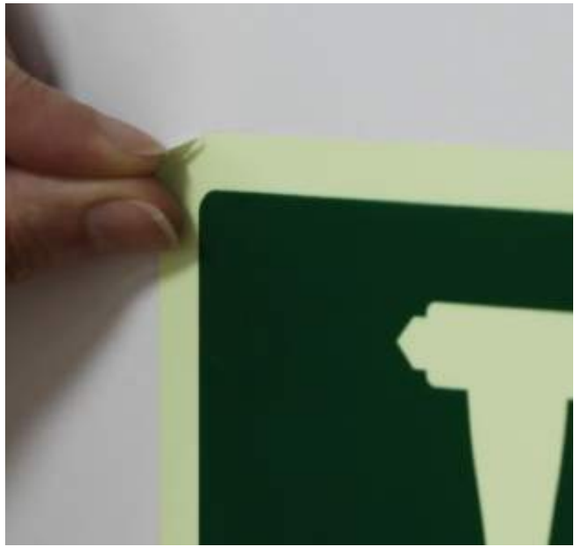


Product Description
Transparent self-adhesive PVC film, 0.08 mm thick, with antistatic surface and easy to clean.

Fixing System

The successful installation and application of self-adhesive safety signs is heavily influenced by a number of factors including the type of surface and its preparation prior to application. The receiving surface should be smooth, even, non-porous and free from dust, grease and loose material.
To prepare the surface before application it is advisable that it is cleaned using a quick-drying degreasing agent. Application on rough, porous or uneven surfaces is not recommended.
During application of the product, the room temperature must be equal or greater than +10°C.
Once installed, the product tolerates a temperature variation between -30°C and + 120°C.

PHOTOLUMINESCENT ANTI-VANDAL ®Everlux® VINYL



Product Description
Photoluminescent self-adhesive PVC film, 0.29 mm thick, antistatic surface and easy to clean.

WHITE ANTI-VANDAL VINYL

Product Description
Self-adhesive PVC film, 0.05 mm thick, with antistatic surface and easy to clean.

Fixing System
The successful installation and application of self-adhesive safety signs is heavily influenced by a number of factors including the type of surface and its preparation prior to application. The receiving surface should be smooth, even, non-porous and free from dust, grease and loose material.
To prepare the surface before application it is advisable that it is cleaned using a quick-drying degreasing agent. Application on rough, porous or uneven surfaces is not recommended.
Ultradestructible vinyl signage is recommended to be installed in locations where strong resistance to tearing or to destruction is desired, when attempting to remove signs, thus discouraging vandalism.

During application of the product, the room temperature must be equal or greater than +5°C.
Once installed, the product tolerates a temperature variation between -10°C and + 110°C.

The specific characteristics of ultra-destructible self-adhesive vinyl, which make it a unique product to combat vandalism also mean that special handling (storage, packaging, transportation and installation) is also required.
It is recommended that the product is stored in the horizontal position and care should be taken to avoid bending or creasing as this is likely to damage the product.

ANTI-SLIP ROLL

Product description
Self-adhesive PVC film with a non-slip coating and with a total thickness of 0.56mm, Photoluminescent self-adhesive PVC film protected by a non-slip laminated layer with, 0.56mm thickness, for application on the floor.

Fixing System
The successful installation and application of self-adhesive non-slip safety products is heavily influenced by a number of factors including the type of surface and its preparation prior to application. The receiving surface should be smooth, even, non-porous and free from dust, grease and loose material. To prepare the surface before application it is advisable that it is cleaned using a quick-drying degreasing agent. Application on rough, porous or uneven surfaces is not recommended. During application of the product, the room temperature must be equal or greater than +10°C.
Once installed, the product tolerates a temperature variation between -20°C and +65°C.

PHOTOLUMINESCENT SELF-ADHESIVE ®Everlux® POLYCARBONATE

Product description
Self-adhesive photoluminescent polycarbonate film with 0.3 mm thickness, easy to clean.

Application
The efficiency of self-adhesive photoluminescent polycarbonate fixation is conditioned by the cleanliness of application surface. Only smooth surfaces, without dust, fat and all kind of dirtiness will be able to allow good adhesion of the self-adhesive photoluminescent polycarbonate. To clean the surface where it is desired to apply the self-adhesive product, it is advisable to use a quick-drying degreaser. The application of this product on rough, porous or uneven surfaces is not recommended. During the installation, the temperature should be equal to or greater than 10 ºC.
Once installed, the product tolerates a temperature variation between -40°C and + 70°C.

PHOTOLUMINESCENT SELF-ADHESIVE ®Everlux® ALUMINIUM

Product Description
Photoluminescent self-adhesive aluminium, 0.28 mm thickness, with antistatic surface and easy to clean.

Fixing System
The successful installation and application of self-adhesive safety signs is heavily influenced by a number of factors including the type of surface and its preparation prior to application. The receiving surface should be smooth, even, non-porous and free from dust, grease and loose material.
To prepare the surface before application it is advisable that it is cleaned using a quick-drying degreasing agent. Application on rough, porous or uneven surfaces is not recommended.
During application of the product, the room temperature must be equal or greater than +10°C.
Once installed, the product tolerates a temperature variation between -40°C and + 120°C.

Fire Resistance
Non-combustible.

PHOTOLUMINESCENT ®Everlux® ALUMINIUM

Product Description
Extra strong 1.24mm thick aluminium, with high photoluminescent luminous intensity, antistatic surface and easy to clean. Protected with an anti-vandalism transparent film.

Fixing System
According to ®Everlux® catalogue.

Fire Resistance
The material does not contribute to fire propagation and is classified as a flame retardant according to IEC 60092-101: 2002.

WHITE ALUMINIUM

Product Description
Extra strong 1mm thick aluminium, antistatic surface and easy to clean. Protected with an anti-vandalism transparent film.

Fire Resistance
The material does not contribute to fire propagation and is classified as a flame retardant according to IEC 60092-101: 2002.

GENERAL

Dimensions, Pictograms and Colours
The products are in conformity with our catalogue and according to the relevant National and International Norms and Legislation.
Printing
High quality gloss paint with UV resistance.
Cleanliness
The products do not require any particular attention other than to periodically wipe clean either with a dry clean cloth or damp cloth. Do not use detergents.
Health and Safety
The product does not contain any radioactive substances.
In terms of toxicity all products are considered as “safe” in accordance with EN 71-3).
Quality
The quality of ®Everlux® products is ensured by a rigorous process of quality control with our own laboratory conducting in-house testing whilst observing all applicable norms.
Customized projects
We offer a wide range of products with different types of adhesives, mechanical resistance and thicknesses.
Contact us through the email: **commercial@everlux.com.**

Standards and Regulations

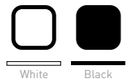
The UNECE (United Nations Economic Commission for Europe) Regulation 107 Uniform provisions concerning the approval of category M^2 or M^3 vehicles with regard to their general construction, adopted by the European Union, set uniform technical prescriptions for wheeled vehicles, equipment and parts which can be fitted and/ or be used on wheeled vehicles.
The importance of the use of safety signs on board vehicles covered by Regulation 107 is addressed in chapter 7.6.11 Safety Signs. The complete prescriptions for safety signs of Regulation 107 will be addressed throughout this catalogue. It is, however, relevant to state that Regulation nº107 prescribes the use of photoluminescent safety signs that posses the minimum luminance decay properties in compliance to Class C as defined by ISO 17398:2004. Additionally to the UNECE Regulation 107, there are other Standards and Legislation applicable to safety signs. The complete list of Standards and Legislation referred in this catalogue is as follows:

LEGISLATION AND NATIONAL STANDARDS	UNECE Regulation No. 107 - Uniform provisions concerning the approval of category M^2 or M^3 vehicles with regard to their general construction.	
	Railway Group Standard GM/RT2130, Issue 4 - Vehicle Fire, Safety and Evacuation	
	Railway Group GM/RC2533 Recommendations for Rail Vehicle Emergency and Safety Information	
	CEN/TS 45545 (all parts), Railway applications — Fire protection on railway vehicles	
	EN 50153 - Railway applications — Rolling Stock — Protective provisions relating to electrical hazards	
	The Health and Safety (Safety Signs and Signals) Regulations 1996	
	Directive 2008/57/EC of the European Parliament and of the Council of 17 June 2008 on the interoperability of the rail system within the Community	
	European Directive 92/58/CEE of 24th June - Council Directive on the Minimum Requirements for the Provision of Safety and/or Health Signs at Work	
	Regulation (EC) No 1371/2007 of the European Parliament and of the Council of 23 October 2007 on rail passengers' rights and obligations	
	Regulation (EU) No 181/2011 of the European Parliament and of the Council of 16 February 2011 concerning the rights of passengers in bus and coach transport and amending Regulation (EC) No 2006/2004	
	European Directive 2004/54/CE of 29th April – Defining the minimum safety requirements for tunnels in the Trans-European Road Network	
	BS EN 13272:2012	Railway applications. Electrical lighting for rolling stock in public transport systems
	BS EN 45545-6:2013	Railway applications. Fire protection on railway vehicles. Fire control and management systems
	BS EN ISO 7010:2012	Graphical symbols - Safety colours and safety signs - Registered safety signs (supersedes BS 5499 - 5: 2002 - Signs with specific safety meanings)
	BS ISO 3864-3:2012	Graphical symbols - Safety colours and safety signs - Part 3: Design principles for graphical symbols for use in safety signs (supersedes BS 5499 - 6: 2002 - Creation and design of graphical symbols for use in safety signs-requirement)
	BS ISO 3864-1:2011	Graphical symbols - Safety colours and safety signs - Part 1: Design principles for safety signs and safety markings (supersedes BS 5499 - 1: 2002 - Specification for geometric shapes, colours and layout)
	BS ISO 3864-2:2016	Graphical symbols - Safety colours and safety signs - Part 2: Design principles for product safety labels
	BS ISO 3864-4:2011	Graphical symbols - Safety colours and safety signs - Part 4: Colorimetric and photometric properties of safety sign materials
	BS ISO 23601:2009	Safety Identification – Escape and evacuation plan signs
	BS 5499-4:2013	Part 4: Code of practice for escape route signing
	BS 5499-10:2014	Guidance for the selection and use of safety signs and fire safety notices
	BS ISO 17398:2004	Safety colours and safety signs classification - performance and durability of safety signs
	BS ISO 16069:2017	Graphical symbols safety signs Safety Way Guidance Systems (SWGS)
	BS 8502:2003	Graphical symbols and signs creation and design of public information symbols Requirements
	BS 5266-6:1999	Emergency lighting. Code of practice for non-electrical low mounted way guidance systems for emergency use. Photoluminescent systems
	Transport for London Design Standards	Docklands Light Rail Signs standard Issue 2; Cable car graphics standard Issue I, New Bus For London graphic standards Issue 2, London Overground signs standard Issue 3, London River Services Signs standard Issue 4, London Underground Signs manual Issue 4, Tram stop signs standard Issue 3
INTERNATIONAL STANDARDS	APTA SS-PS-002-98, Rev. 3	Standard for Emergency Signage for Egress/Access of Passenger Rail Equipment
	APTA SS-PS-004-99, Rev. 2	Standard for Low-Location Exit Path Marking
	APTA RT-VIM-S-026-12	Rail Transit Vehicle Passenger Emergency Systems
	DIN 67 510	Photoluminescent pigments and products

ColorAdd
What is ColorAdd?

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.

Using the method of addition of graphical symbols, all other secondary colors can be obtained.

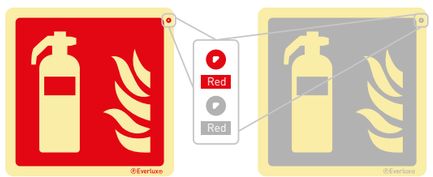


By adding the black and white symbols you can form symbols for the light or dark colour tones.

Light tones

Dark tones

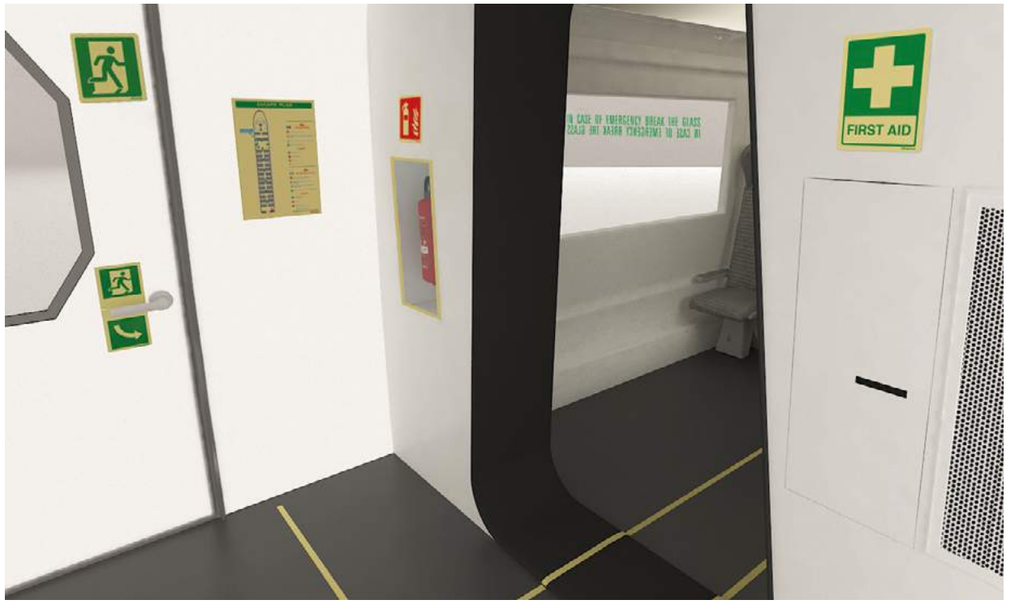
To complete the color code, the following symbols have been added for gray, gold and silver colour.

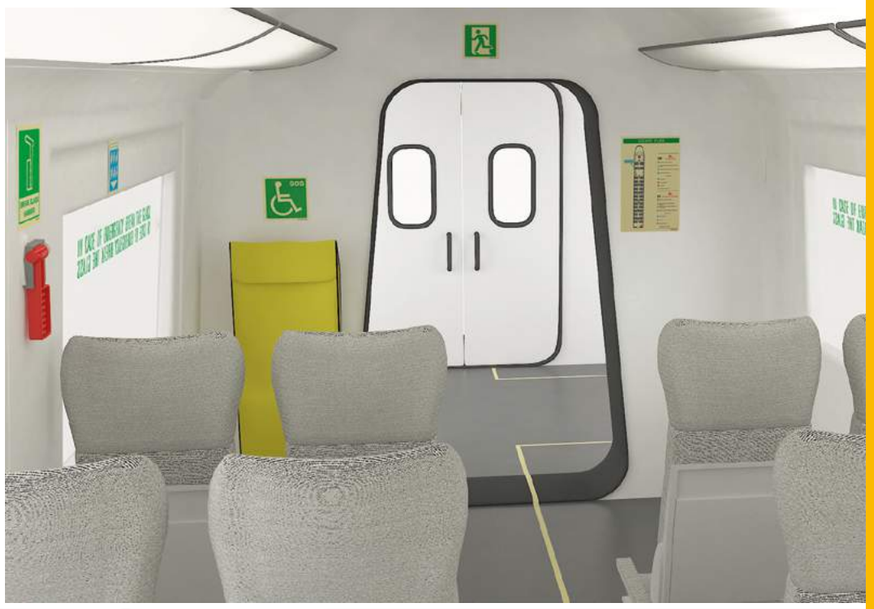


By including the ColorAdd system, the Everlux catalogue allows colorblind people to fully comprehend all the components of a safety signs.

WWW.COLORADD.COM

LONG AND MEDIUM DISTANCE





UU 133

UU 224

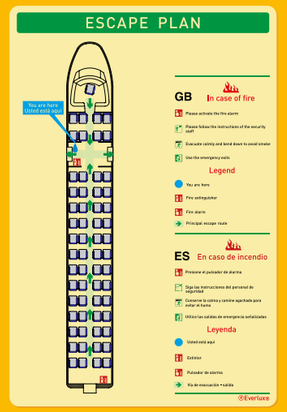
UU 321

UU 171

UU 252

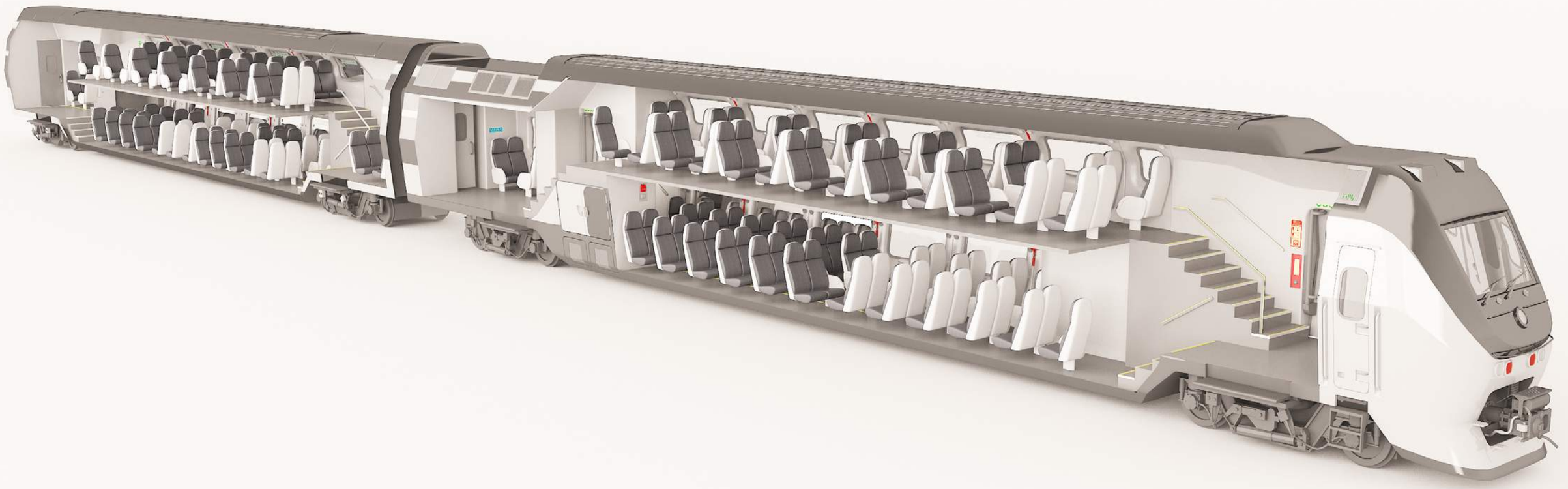
UU 602

UU 767



UU KPQ

TRAM



UU 002 UU 137 UU 211 UU 301

UU 109

UU 052

UU 171

UU 252

UU 459

UU 401

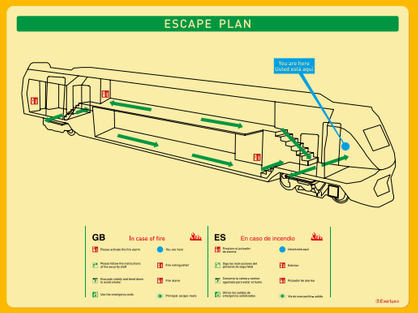
UU 483

UU 521

UU 602

UU 606

UU 761



UU PH3

Railway Group Standard GM/RT2130, Issue 4 – Vehicle Fire, Safety and Evacuation

Given the significance of the Railway Group Standard GM/RT2130, Issue 4 – Vehicle Fire, Safety and Evacuation for the railway public transportation sector, it is pertinent to highlight its prescriptions in terms of safety signs in this area of the Everlux® catalogue.
The Railway Group Standard GM/RT2130 is in line with the implementation of the Technical Specifications for Interoperability (TSI's) mandated by several European Union Directives, namely Directive 2008/57/EC and its paragraph 2.4.1. Safety within Annex III Essential Requirements.

Thus, this standard requires the provision of rail vehicle fire, safety and evacuation arrangements. Among other fire safety requirements, it specifically addresses the matters of emergency lighting, emergency and safety equipment and in its paragraph 6 it sets the Requirements for Emergency and Safety Information:

6.1. Provision of information

6.1.1 Emergency and safety information shall be provided to mitigate against the risks to people from the train and from the train operating in its particular environment.

6.2 General signage requirements

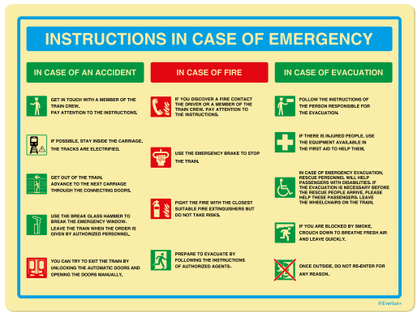
6.2.1 Emergency and safety signs shall be provided on rail vehicles to identify to persons conveyed by or working on rail vehicles, and to persons attending emergencies:

a) The location, access and operation of equipment or facilities provided for use in an emergency.
The image below provides an example of an emergency safety sign which can be used to identify the location of an equipment, in this particular case an evacuation chair, that shall be used in an emergency:

b) Actions that are prohibited for reasons of safety.
The example below illustrates a prohibition action sign in compliance with this requirement:

c) Objects, actions, hazards and situations which affect or could affect safety.

d) Instructions that are mandatory for the purposes of safety.
The instruction panel below is an example of a sign that can be used to comply with this requirement:



Paragraph 6.2.2 requires that the provisions of emergency and safety signs on rail vehicles should comply with a recognized railway standard to assure consistency across the network. Simultaneously, the emergency and safety signs should also comply with the requirements in the Health and Safety (Safety Signs and Signals) Regulations 1996, supported by BS 5378 and BS 5499.

Additionally to the general signage requirements, the Railway Group Standard GM/RT2130 also establishes specific requirements in terms of safety signs, from equipment that must be signed, location of the safety signs and materials of construction of the safety signs.

6.3.7 Equipment signage

6.3.7.1 On train safety signs shall be displayed where equipment is provided for passenger use. The signs shall provide clear information and instruction on the use of equipment.
The image right side shows an example of an equipment sign which provides clear instructions on how to use an equipment, in this case, on how to unlock the doors:

6.4 Positioning

6.4.1 Emergency and safety signs shall be positioned so as to be easily read and the information easily understood in relation to any necessary action.

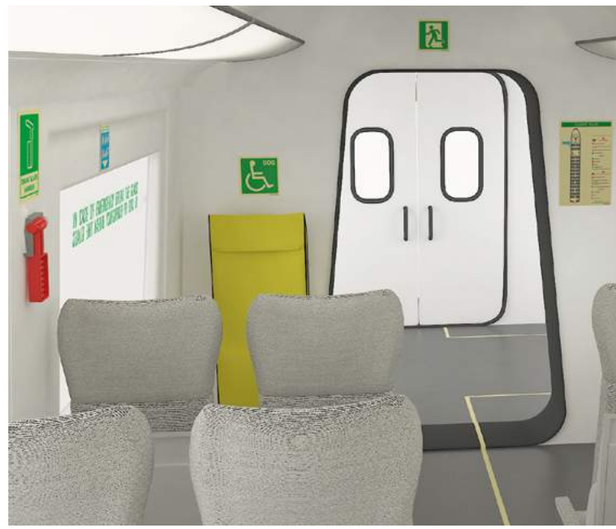
6.4.2 The positioning of emergency and safety signs shall have priority over all other signs.

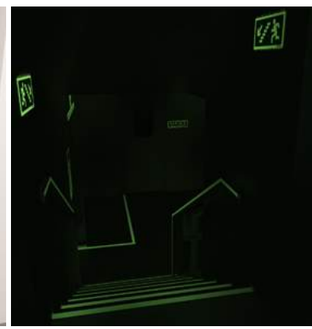
6.4.3 The number of signs used shall be kept to a minimum.
This may be achieved by combining signs that are located in close proximity.
The image right side illustrates a simple but effective positioning of safety signs. At the entry/ exit point of this car there is an evacuation plan positioned at eye level to make it easy for the passenger to read and to become familiar with the emergency exits available as well as the locations of the emergency and fire-fighting equipment provided in the car. Over the exit door, there is an exit sign which can clearly be seen by all passengers irrespectively of where they may be travelling in this car. There is a emergency evacuation chair sign showing the location of that particular emergency equipment.
The window shown in the image also features and emergency exit sign proving the information to the passengers that it can be used as an exit point in case of an emergency.

6.5 Materials

6.5.2 Signs provided for passenger emergency equipment, egress facilities and routes shall use photo-luminescent materials and shall not rely solely on the availability of emergency electric supplies.
In the areas where photo-luminescent safety signs are used, the general lighting shall provide a minimum illumination of 50 lux, as required in paragraph 6.4.4, to ensure the signs are charged to be effective during an emergency that may arise.

As stated in its Part 8 Application of this document, the requirements of the **Railway Group Standard GM/RT2130** are applicable to all new as well as to existing rolling stock when undergoing major modification that affects fire, safety and evacuation on vehicles.
For more information on the available Everlux® solutions in compliance with this or any other standard please e-mail us at commercial@everlux.com.





BUS

UU 081

UU 202

UU 212

UU 401

UU 252

UU 602

UU 716

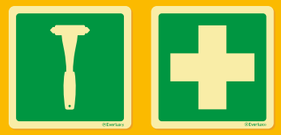
UU 701

UU 702

UU 811

COACH

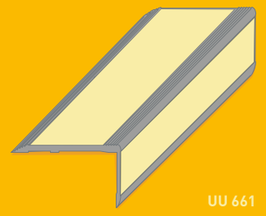
UU 110



UU 211 UU 301

UU 252

UU 602



UU 661

UU 792

Regulation no. 107 for Buses and Coachs

This section of the ⓀEverlux® catalogue includes a short summary of Annex 3, chapter 7.6.11. Safety Signs of the UNECE (United Nations Economic Commission for Europe) Regulation 107 Uniform provisions concerning the approval of category M_2 or M_3 vehicles with regard to their general construction.

As its designation pertains, the UNECE **Regulation 107** is applicable to vehicles classed as:

M_2: vehicles used for the carriage of passengers, comprising more than eight seats in addition to the driver's seat, and having a maximum mass not exceeding 5 tonnes.
M_3: vehicles used for the carriage of passengers, comprising more than eight seats in addition to the driver's seat, and having a maximum mass exceeding 5 tonnes.

Annex 3 sets the provisions that must be met by all vehicles within these categories. Namely in respect of safety signs as established in chapter 7.6.11. Safety Signs:

7.6.11.1. All safety signs shall comply with requirements contained in paragraph 6.5 of ISO standard 3864-1:2011.
ISO 3864-1: 2011 specifies the safety identification colours and design principles for safety signs that are to be used with the objective of preventing accidents and to convey safety messages related to fire-fighting, health hazard information and emergency evacuation:

a) The colour white includes the colour of photoluminescent material on daylight and in accordance with the provisions of ISO 3864.4

Geometric shape	Meaning	Safety colour	Contrast coulour	Graphical symbol colour	Indications and precision
Circle with diagonal bar	Prohibition	Red	Black	Black	Dangerous behaviour
Circle	Mandatory action	Blue	Black a)	White a)	Behaviour or specific action. Obligation to use personal protective equipment
Equilateral triangle with radiused outer corners	Warning	Yellow	Black	Black	Attention, Caution, Verification
Square	Safe condition	Green	White a)	White a)	Doors, exits, routes, material, rescue stations
Square	Fire equipment	Red	White a)	White a)	Identification and location

Even though this part of Regulation 107 is specific to paragraph 6.5, Safe condition signs, of ISO 3864-1:2011, this should be interpreted as a demonstrative effort and the overall specifications of ISO 3864-1:2011 in terms of colours and shapes for the different category of safety signs should be taken in to account in the design of safety signs compliant to this requirement. Implementing the overall ISO 3864-1:2011 principles will have a positive contribution in conveying an effective safety message to the users of public transportation in general, and consequently of these classes of vehicles.

Implementing the overall ISO 3864-1:2011 principles will have a positive contribution in conveying an effective safety message to the users of public transportation in general, and consequently of these classes of vehicles.

7.6.11.2. Each safety sign required by this Regulation shall be used to communicate only one safety message. The information provided shall be in the form of pictograms, however, words, letters and numbers may supplement the pictogram in combination on the same sign. It shall be located and orientated so as to be easily understood.

7.6.11.2.1. Safety signs shall follow the principles shown in the example layouts below, i.e. a header section depicting the safety message, a second section containing instructional information and a third, optional, footer section for non-critical text.

The examples provided above follow the principles laid out by paragraphs 7.6.11.2.1 and 7.6.11.2 as both signs are comprised with pictorial graphics and supplementary texts and contain a header section with the general contextualisation of the safety message as well as a section with instructions that must be followed. Both examples also contain a third section with non-critical text.
Additionally, the two sign examples given also follow what is prescribe by the subsequent paragraphs 7.6.11.2.2, 7.6.11.2.3, 7.6.11.2.4 and 7.6.11.2.5:

7.6.11.2.2. Pictograms indicating required actions by the user shall show a person, or the relevant part of a person, operating the equipment or device.

7.6.11.2.3. Pictograms indicating a required movement shall, where appropriate, show an arrow pointing in the direction of motion. Where a rotational movement is required, a curved arrow shall be used.

7.6.11.2.4. . Where devices are to be operated, doors are to be opened or panels need to be removed the pictogram shall indicate the action in progress.

7.6.11.2.5. The lower case letter(s) of supplementary words, single letters and numbers shall have a minimum height of 8 mm. Words shall not be in upper case letters only.

Regulation 107 also addresses the nature of safety signs that are to be used not only in terms of their general characteristics but also in terms of their quality performance which will be crucial in the event of an emergency. **In this respect, this chapter specifies the use of photoluminescent safety signs and set their minimum luminance requirements:**

ISO 17398: 2004 prescribes the requirements for performance based classification system for safety signs, namely in terms of photometric properties. ISO 17398:2004 paragraph 5.5 presents the luminance decay characteristics of photoluminescent safety signs and their respective classification:

Sub-classification	7.11 Minimum luminance (mcd/m²)			
	2 min	10 min	30 min	60 min
A	108	23	7	3
B	210	50	15	7
C	690	140	45	20
D	1100	260	85	35

7.6.11.3 All safety signs that are visible from the inside of the vehicle shall be of photoluminescent material having luminance decay characteristics conforming, as a minimum, to sub-classification C in Table 2 of ISO Standard 17398:2004, when measured in accordance with paragraph 7.11. of that standard.

These minimum luminance performance values should be obtained by submitting the signs to the luminance measurement test specified in paragraph 7.11 as referred by Regulation 107.

There are a wide variety of photoluminescent safety signs available in the market place with equally diverse luminance performance and therefore establishing a minimum quality benchmark that is accepted for this market is crucial in assuring that the vehicles are equipped with the right products.

The ®Everlux® signs offered in this catalogue meet all the requirements and will help you in assuring compliance as well as in offering an effective safety signage system to passengers and staff onboard.

The location of where the safety signs are installed is also an important factor in assuring that they will be effective when needed. This matter is addressed in Regulation 107 in paragraphs 7.6.11.4, 7.6.11.5, 7.6.11.6 and 7.6.11.7:

7.6.11.4. Safety signs shall not be located in positions where they may be obscured during operation of the vehicle. However, a curtain or blind may be positioned over an emergency window provided an additional safety sign indicates that the emergency window is located behind the curtain or blind.

7.6.11.5. Each emergency exit, and any other exit that meets the prescriptions for an emergency exit, shall be marked by one of the relevant pictograms described in Table 3 of ISO Standard 7010:2011; pictograms shall be legible from both the inside and the outside of the vehicle.

Apart from specifying how emergency exits shall be marked, paragraph 7.6.11.5, **is also important as it prescribes the use of pictograms in compliance with ISO 7010: 2011.**

Graphical symbols - Safety colours and safety signs – Registered safety signs contains a comprehensive catalogue of signs developed in accordance with the design principles established by ISO 3864 that are to be used in for accident prevention, fire protection, health hazard information and, in this particular case for emergency evacuation:

7.6.11.6. Safety signs shall be positioned adjacent to, or surround, or be on, all internal and external emergency controls and device(s) for breaking emergency window(s).

7.6.11.7. No part of a safety sign shall obscure any misuse protection that may be present, e.g. a cover.

As referred in paragraph 7.6.11.2., safety signs shall be comprised with pictograms and may be supplemented with words and text to increase the comprehension of the message conveyed by a particular sign.

In paragraph 7.6.11.8, regulation 107 establishes that the language used in supplementary texts shall be determined by the approving authority of country where the vehicle is intended to be used on:

7.6.11.8. The language in which any textual safety sign intended to comply with paragraphs 7.6.11.1. to 7.6.11.7. above are to be inscribed shall be determined by the approving authority bearing in mind the country / countries in which the applicant intends to market the vehicle in liaison if necessary with the competent authorities of the country / countries concerned. If the authority of the country / countries where the vehicle is to be registered has the language

changed, this change shall imply no new type approval process.
The last paragraph of chapter 7.6.11. Safety Signs addresses the need of safe condition signs to mark devices that enable passengers to indicate that the driver should stop the vehicle:

7.7.9.1. On vehicles of Classes I, II and A, a means shall be provided to enable passengers to signal that the driver should stop the vehicle. The controls for all such communication devices shall be capable of being operated with the palm of the hand. (...)

Additionally to the specific chapter for Safety Signs that was covered above, the UNECE Regulation 107 further indicates that safety signs can be proposed in accordance to chapters that are dedicated to other equipment.

For example, **paragraph 7.8.3.**1 requires that the activation of the emergency lighting system can be done from the driver's seating position. Thus, the use of a photoluminescent safety sign identifying the activation mechanism of the emergency lighting position can prove to be valuable during an emergency situation.

In fact, the provisions made by the regulation for the accommodation and accessibility of passengers with reduced mobility also prescribe the use of signs developed in accordance to ISO 3864 design principles:

5.2. Vehicles of Class I shall be accessible for people with reduced mobility, including at least one wheelchair user and one pram or unfolded pushchair according to the technical provisions laid down in Annex 8. 12 the area for the accommodation of an unfolded pushchair or pram. In such a case, the area shall have signs fixed on or adjacent to the area with the following text, equivalent text or pictogram:

"Please give up this space for a wheelchair user".

3.7.3. For vehicles of Classes I, II and A, where the foot space of any seat, or part of a folding seat when in use, intrudes into a wheelchair space, those seats shall have signs fixed on or adjacent to them with the following text, equivalent text or pictogram:

"Please give up this space for a wheelchair user". The provisions of paragraph 7.6.11.4. of Annex 3 apply to any textual markings used".

3.7.4. In vehicles where any wheelchair space is designated for use exclusively by a wheelchair user as provided for in paragraph 7.2.2.2.10. of Annex 3, those spaces shall be clearly marked with the following text, equivalent text or pictogram:

"Area designated for use exclusively by a wheelchair user"

We are confident that this coverage of the UNECE Regulation 107 will be useful for public transportation sector who all are responsible for assuring safety signage compliance and welcome any questions on this regulation or ony any other relevant Standards on safety signs.

For inquiries please e-mail us at commercial@everlux.com.

Escape Route Signs

(mm)
60x60
100x100
150x150
200x200
210x210
300x300

(mm)
100x50
200x100
300x150
400x200
600x300

Emergency Escape Route Signs


UU 001


UU 002

The emergency exit doors should be marked with the appropriate emergency signs.

Signs According to UNECE Regulation no.107

UU 030

UU 031

Signs According to European Council Directive 92/58/EEC Escape Route Signs


UU 051


UU 052


UU 053


UU 054


UU 055


UU 056

Signs According to ISO 7010


UU 081


UU 082


UU 083


UU 084


UU 085


UU 086

Signs for Stairs


UU 101


UU 102


UU 103

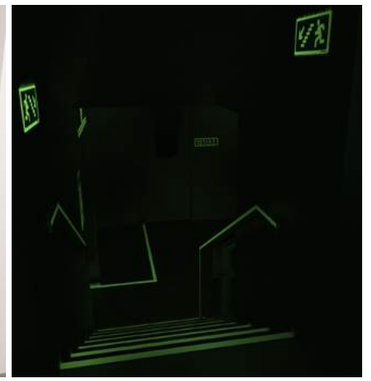

UU 104


UU 109


UU 110


UU 111


UU 112



The proposed measures and pictograms are for guidance only. According to request, bespoke safety signage systems can be supplied.

The proposed measures and pictograms are for guidance only. According to request, bespoke safety signage systems can be supplied.

Emergency Equipment Signs

Evacuation Signs for People with Reduced Mobility

UU 131 UU 132 UU 133 UU 134

In case there is an alarm device to activate the evacuation of people with reduced mobility or to indicate the location of equipment provide to aid evacuation signs with the SIA pictogram should be installed.

UU 135 UU 136 UU 137

UU 141 UU 142 UU 143

Door Mechanism Signs

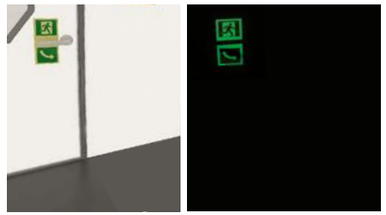
UU 150

UU 151

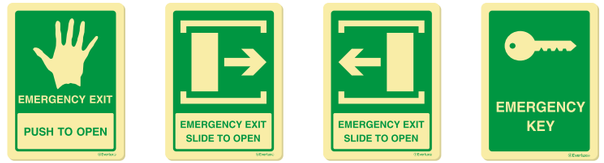
UU 161 UU 162

Emergency Equipment Signs

Emergency opening systems should be marked with the respective safety signs



UU 171 UU 172



UU 192 UU 193 UU 194 UU 198

UU 195 UU 196 UU 197 UU 199

UU 200 UU 201 UU 202

Emergency Windows and Break Glass Hammer

UU 211 UU 212 UU 213

UU 214 UU 215 UU 216 UU 217 UU 218

(mm)
60x60
100x100
150x150
200x200
210x210
300x300

(mm)
60x100
100x150
150x200
200x300
210x297
300x400

(mm)
100x60
150x100
200x150
300x200
297x210
400x300

(mm)
60x60
100x100
150x150
200x200
210x210
300x300

The proposed measures and pictograms are for guidance only. According to request, bespoke safety signage systems can be supplied.

(mm)
100x240

(mm)
60x100
100x150
150x200
200x300
210x297
300x400

(mm)
100x50
200x100
300x150
400x200
600x300

(mm)
60x60
100x100
150x150
200x200
210x210
300x300

The proposed measures and pictograms are for guidance only. According to request, bespoke safety signage systems can be supplied.

Emergency Windows and Break Glass Hammer

UU 221 UU 222 UU 223 UU 224

UU 231 UU 232 UU 233

UU 234 UU 235 UU 236

All devices that serve to break the glass should be identified with a photoluminescent signal.

UU 252

UU 263

UU 256

UU 264

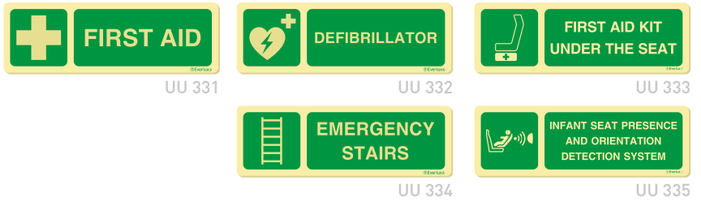
UU 257

Emergency Equipment Signs

UU 301 UU 302 UU 303 UU 304 UU 305

UU 306 UU 307 UU 308 UU 309 UU 310

UU 321 UU 322



UU 331 UU 332 UU 333 UU 334 UU 335

First aid equipments should be marked with the appropriate emergency signs.

(mm)
60x100
100x150
150x200
200x300
210x297
300x400

(mm)
200x70
300x100
400x120

(mm)
600x100
900x120

The proposed measures and pictograms are for guidance only. According to request, bespoke safety signage systems can be supplied.

(mm)
60x60
100x100
150x150
200x200
210x210
300x300

(mm)
60x100
100x150
150x200
200x300
210x297
300x400

(mm)
200x70
300x100
400x120

The proposed measures and pictograms are for guidance only. According to request, bespoke safety signage systems can be supplied.

Fire Fighting Equipment Signs

Fire Extinguisher Signs

UU 401 UU 403 UU 404

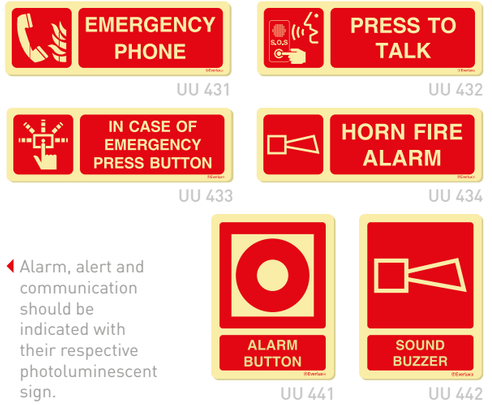
The location of the fire-extinguisher should be indicated with the appropriate fire equipment location sign.

UU 411

UU 412

Warning and Alarm Equipment Signs

UU 421 UU 422 UU 423 UU 424 UU 425 UU 426

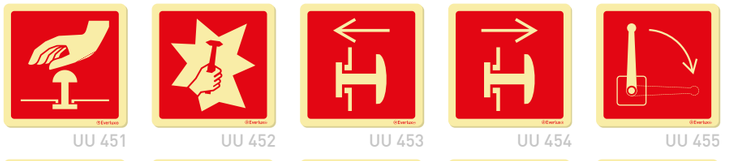


UU 431 UU 432 UU 433 UU 434

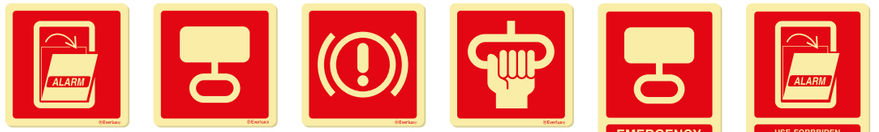
Alarm, alert and communication should be indicated with their respective photoluminescent sign.

UU 441 UU 442

Emergency Break Stop Signs



UU 451 UU 452 UU 453 UU 454 UU 455



UU 456 UU 457 UU 458 UU 459 UU 461 UU 462

(mm)
60x60
100x100
150x150
200x200
210x210
300x300

(mm)
60x100
100x150
150x200
200x300
210x297
300x400

The proposed measures and pictograms are for guidance only. According to request, bespoke safety signage systems can be supplied.

(mm)
60x60
100x100
150x150
200x200
210x210
300x300

(mm)
200x70
300x100
400x120

(mm)
60x100
100x150
150x200
200x300
210x297
300x400

(mm)
60x60
100x100
150x150
200x200
210x210
300x300

The proposed measures and pictograms are for guidance only. According to request, bespoke safety signage systems can be supplied.

(mm)
200x70
300x100
400x120

(mm)
60x60
100x100
150x150
200x200
210x210
300x300

(mm)
60x100
100x150
150x200
200x300
210x297
300x400

(mm)
50x100
100x200
150x300
200x400
300x600

(mm)
100x50
200x100
300x150
400x200
600x300

The proposed measures and pictograms are for guidance only. According to request, bespoke safety signage systems can be supplied.

Emergency Break Stop Signs

UU 471

UU 472

UU 473

UU 474

Manual Opening Systems for Automatic Doors Signs

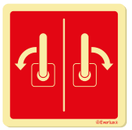
UU 481

UU 482

UU 483

UU 484

UU 485



UU 486

UU 487

UU 488

UU 489

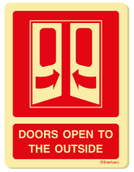
UU 490

UU 491

UU 492

UU 501

UU 502



UU 503

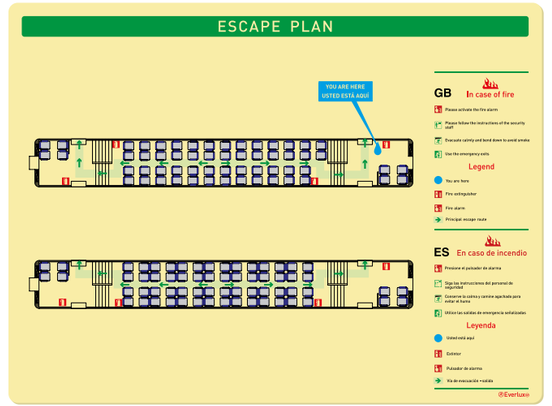
UU 511

UU 512

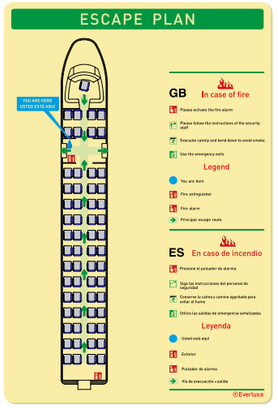
UU 521

Evacuation Plans

2D Evacuation/Escape Plans



UU KPV



UU KPQ

UU KPH

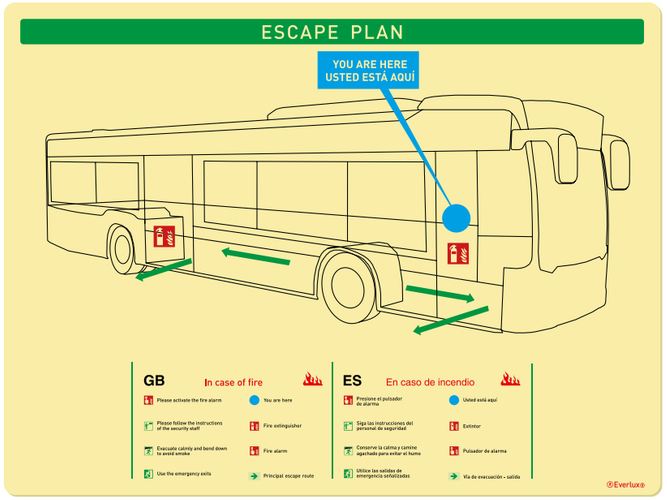
(mm)
300x200
400x300

(mm)
300x200
400x300

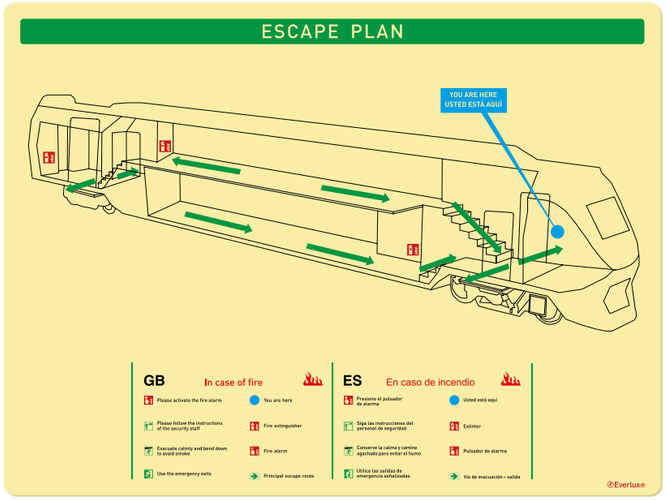
The proposed measures and pictograms are for guidance only. According to request, bespoke safety signage systems can be supplied.

(mm)
300x200
400x300

3D Evacuation/Escape Plans



UU PV3



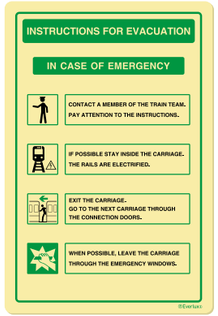
UU PH3

The proposed measures and pictograms are for guidance only. According to request, bespoke safety signage systems can be supplied.

Safety Instructions

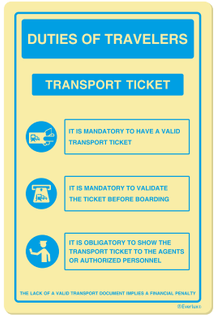
Safety Instructions

(mm)
60x100
100x150
150x200
200x300
210x297
300x400



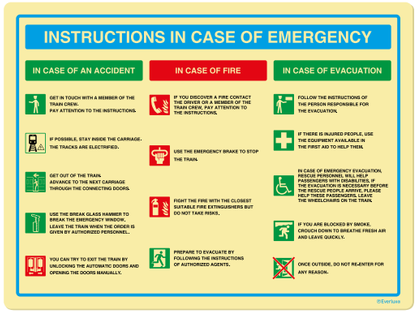
UU 531

UU 532



UU 533

UU 534



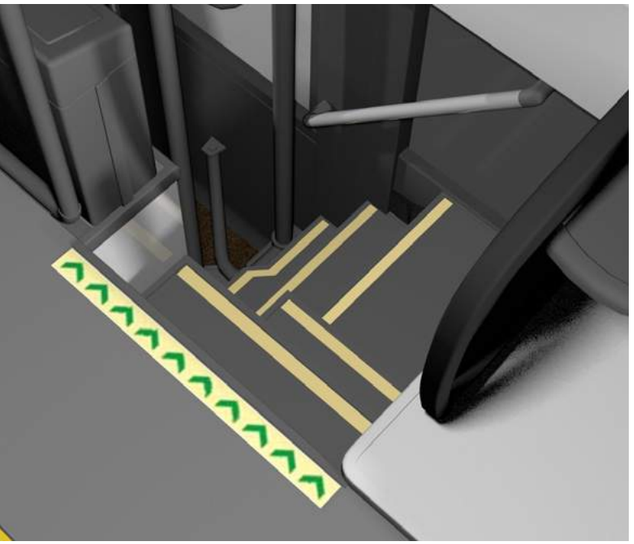
UU 535

UU 536

(mm)
150x100
200x150
300x200
400x300
600x400

The proposed measures and pictograms are for guidance only. According to request, bespoke safety signage systems can be supplied.

Everlux®-LLL- Photoluminescent Marking for Evacuation Routes



Introduction

The spreading of smoke is one of the most dangerous consequences of a fire which can render evacuation difficult and, in some cases, impossible. Under these conditions, visibility is reduced causing panic and increasing the evacuation time which is a critical factor in avoiding intoxication which can ultimately lead to death.

The Everlux-LLL - Low Location Lighting system is a unique system that allows all evacuation routes to stay illuminated, thereby communicating a clear, continuous and unambiguous "means of escape" message which leads to a safe place.
This LLL system is unique in providing consistent and regular information throughout the complete escape route. This reduces possible confusion and panic, factors that hamper the safe egress from occupied areas.

Everlux-LLL system has been used for years in the maritime field, following IMO Resolution A. 752 (18). According to that resolution all means of egress must be marked with Low Location Lighting system at all points of the evacuation route. The Everlux-LLL system is also recommended by ISO Standards, namely ISO 16069.

The system is manufactured with a new generation of photoluminescent pigments, specially developed for these situations, and guarantees a high level of luminosity despite being placed in situations of low ambient lighting (i.e. ground level).

Technical Characteristics

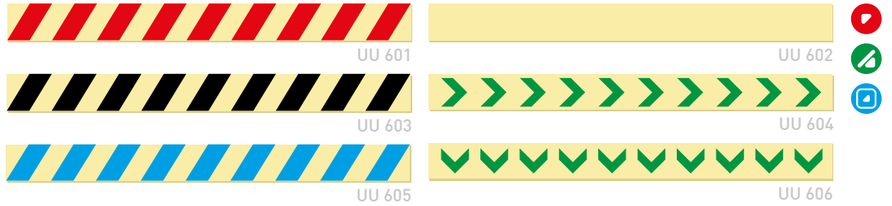
0.3mm non-slip self-adhesive polycarbonate with a high photoluminescent intensity, rated as having a high level of abrasion resistance being classified as Abrasion Class (PEI) IV in accordance with EN ISO 10545-7:2000 and static coefficient of 0,52 according to UL410.

Printing: : Serigraphy, high quality gloss paint with UV resistance, with 2 years of guarantee

Surface: Antistatic and easy to clean.

Chemical Characteristics: Non-radioactive, Non-phosphorous, lead-free and non-poisonous.

Photoluminescent Marking System for Horizontal Application (Floors and Stairs)



Self-adhesive and non-slip strips

Self-adhesive and non-slip strips

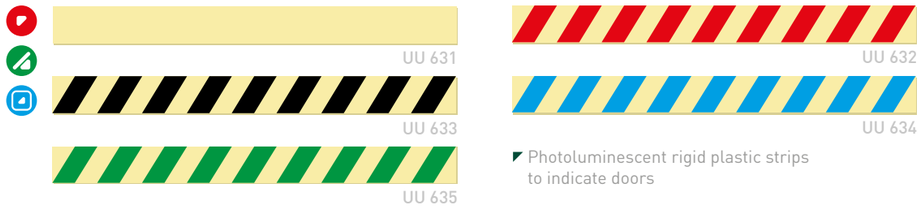
(mm)
1200x35
1200x57
1200x83

(mm)
57x107
83x158

The proposed measures and pictograms are for guidance only. According to request, bespoke safety signage systems can be supplied.

Rolls with a maximum length of 10m and width as requested.

Signs to Indicate Obstacles and Dangerous Areas Along the Escape Route

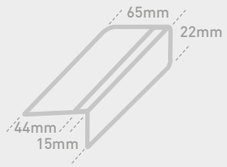


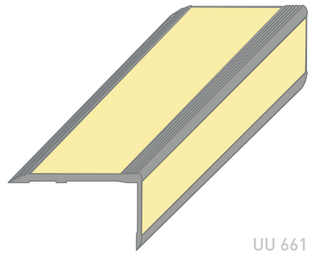
Photoluminescent rigid plastic strips to indicate doors

Rolls with a maximum length of 10m and width as requested.

Self-adhesive Vinyl Strips

Stairnosing - Protection for Steps





The extruded aluminium lengths for indicating the step edges are supplied in specified lengths and double-sided high-adherence adhesive strips which provide efficient and even adhesion along the length.

The proposed measures and pictograms are for guidance only. According to request, bespoke safety signage systems can be supplied.

Everlux-LLL Discs

Non-slip self-adhesive discs for floors (1 sheet of 18 units)

The proposed measures and pictograms are for guidance only. According to request, bespoke safety signage systems can be supplied.

Safety Signs for Travellers
Rights and Duties

Safety Signs for People with Disabilities or Reduced Mobility

(mm)
60x60
100x100
150x150
200x200
210x210
300x300

UU 701 UU 702 UU 703 UU 704 UU 705 UU 706 UU 707 UU 708 UU 709 UU 710 UU 711 UU 712 UU 713 UU 714 UU 715 UU 716 UU 717 UU 718 UU 719 UU 720 UU 721 UU 722 UU 723 UU 724 UU 725 UU 726 UU 727 UU 728 UU 729 UU 730 UU 731 UU 732

The proposed measures and pictograms are for guidance only. According to request, bespoke safety signage systems can be supplied.

Safety Signs for Travellers with Priority

(mm)
60x60
100x100
150x150
200x200
210x210
300x300

(mm)
200x70
300x100
400x120

(mm)
60x100
100x150
150x200
200x300
210x297
300x400

UU 741 UU 742 UU 743 UU 744 UU 745 UU 746 UU 747 UU 748 UU 749 UU 750 UU 751 UU 752 UU 753 UU 761 UU 712 UU 767

The proposed measures and pictograms are for guidance only. According to request, bespoke safety signage systems can be supplied.

Mandatory Signs

(mm)
60x60
100x100
150x150
200x200
210x210
300x300

(mm)
60x100
100x150
150x200
200x300
210x297
300x400

(mm)
200x70
300x100
400x120

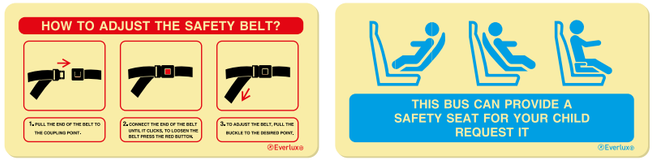
(mm)
100x50
200x100
300x150
400x200
600x300

Seat Belt Safety Signs

UU 771 UU 772 UU 773

UU 781 UU 782

UU 791 UU 792



UU 801 UU 802

Miscellaneous Mandatory Action Signs

UU 810 UU 811 UU 812 UU 813

UU 814 UU 815 UU 816

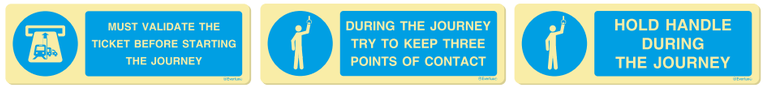
Miscellaneous Mandatory Action Signs

UU 821 UU 822

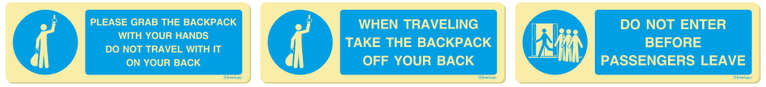
UU 823 UU 824 UU 825 UU 826 UU 827

UU 831

UU 832 UU 833 UU 834



UU 835 UU 836 UU 837



UU 838 UU 839 UU 840

UU 841 UU 842 UU 843

The proposed measures and pictograms are for guidance only. According to request, bespoke safety signage systems can be supplied.

The proposed measures and pictograms are for guidance only. According to request, bespoke safety signage systems can be supplied.

Prohibition Signs

Pictograms and Text

UU 901 UU 902 UU 903 UU 904 UU 905

UU 906 UU 907 UU 908 UU 909 UU 910

UU 911 UU 912 UU 913 UU 914 UU 915

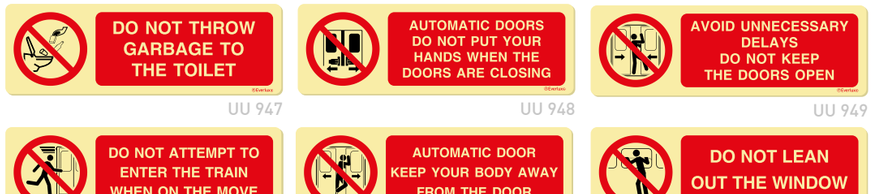
UU 916 UU 917 UU 918 UU 919 UU 920

UU 921 UU 922 UU 923 UU 924

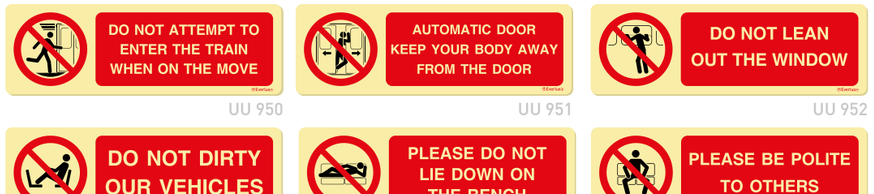
Pictograms and Text

UU 941 UU 942 UU 943

UU 944 UU 945 UU 946



UU 947 UU 948 UU 949



UU 950 UU 951 UU 952

UU 953 UU 954 UU 955

(mm)
60x100
100x150
150x200
200x300
210x297
300x400

(mm)
200x70
300x100
400x120

The proposed measures and pictograms are for guidance only. According to request, bespoke safety signage systems can be supplied.

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(mm)
1200x300

Itenerary

European Cities

U IT E2

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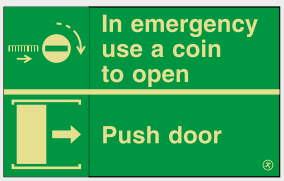
Material Types

Ⓚ Everlux® Self-Adhesive
White Self-Adhesive
Anti-Vandal Ⓚ Everlux® Self-Adhesive
Anti-Vandal white Self-Adhesive
Transparent Self-Adhesive
Self-Adhesive Ⓚ Everlux® Aluminium
Ⓚ Everlux® Aluminium
White Aluminium
Polycarbonate Ⓚ Everlux® self-adhesive

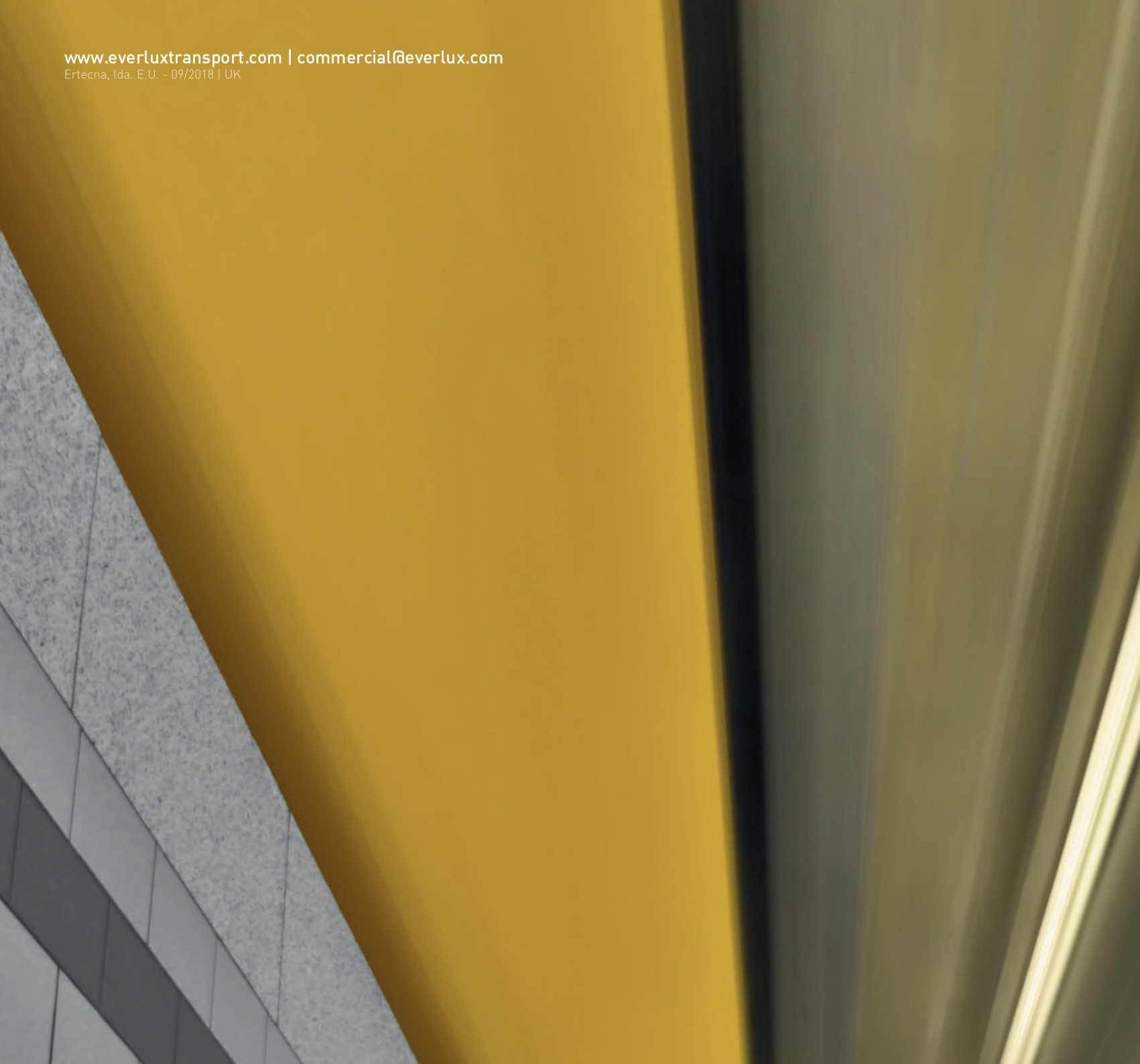
Design **Requirements**

The signs featured in this catalogue are merely indicative.
Ⓚ Everlux® with its long experience, has an R&D department prepared to study and present solutions in accordance with the specifications of our clients.

Example



Send your inquiry to **commercial@everlux.com**
web page **www.everluxtransport.com**



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