

**NYCMEA VERSION ISO 17398:2004
UV DEGRADATION TESTING
FOR GENERAL VY-COAT LLC
ON
GLOWSCAPE 1 AND GLOWSCAPE 2
VTEC #100-2468
TESTED: SEPTEMBER 26, 2006**

Material:

- 1) Manufacturer: General Vy-coat LLC
 2) Product: GlowScape 1 and GlowScape 2
 3) Color: Green
 4) Surface: Smooth
 5) Number of Specimens: Three
 6) Illuminance Meter: Advanced Light Meter Model 84002
 7) Luminance Detector: Optomer Model X11 with Detector PD-9310B
 9) Excitation Light: Fluorescent 25.2 W Lamp of the 390 nm -690 nm continuous spectrum Model W7250
 10) Excitation Illuminance: 2 footcandles
 11) Excitation Duration: 2 hours
 12) Temperature: 22°C
 13) Humidity: 36%

Test Results:

UV Degradation Test

No	Luminance [mcd/m ²] after the time period (minutes) of								
	10			60			90		
	Unexposed	Exposed	α (%)	Unexposed	Exposed	α (%)	Unexposed	Exposed	α (%)
1	32.88	30.87	92.3	5.377	4.941	91.9	2.789	3.591	92.9

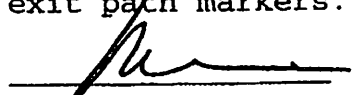
*Parameter α indicates the relative luminance of the sample under the test, in percent, after exposure to the UV radiation and moisture per ASTM G155/ASTM G151, in comparison with the initial luminance. It is equal to:


$$\alpha = 100B/B_0$$

Where B and B₀ are the luminance magnitudes for exposed and unexposed samples of the same material, respectively.

CONCLUSION:

No cracking, checking, crazing and/or erosion defects are present on the surface of the samples of the material tested. Based upon these test results, the material met the passing requirements per "The New York City Building Code Reference Standard RS 6-1 and RS 6-1A", para. 6.4. for Photoluminescent exit path markers.


 Neil Schultz
 Executive Director


 Amirudin Rahim
 Technical Director



VTEC Laboratories Inc.

September 26, 2006

Client: General Vy-coat LLC
109 Kero Rd.
Carlsadt, N.J. 07072

Attention: Mr. Ira Chaimovits

Scope: This report contains the reference to the test method, material description, test results, and post test observations/conclusions.

Test Method: This test was conducted in accordance with ISO 17398:2004, "Safety Colours and Safety Signs - Classification, Performance and Durability of Safety Signs", Clause 7.11.

Disclaimer: This is a factual report of the results obtained from the laboratory test of sample products. The results may be applied only to the products tested and should not be construed as applicable to other similar products of the manufacturer. The report is not a recommendation or disapprobation by VTEC Laboratories, Inc. of the material tested. While this report may be used for obtaining product acceptance, it may not be used in advertising.

Notice: VTEC Laboratories Inc. will not be liable for any loss or damage resulting from the use of the data in this report, in excess of the invoice. This report pertains to the sample tested only. Such report shall not be interpreted to be a warranty, either expressed or implied as to the suitability or fitness of said sample for such uses or applications, as the party contracting for the report may apply such sample.

General Vy-Coat, LLC
109 Kero Road
Carlstadt, NJ USA 07072
201-939-4471 Fax 201-939-2845

November 29, 2006

General Vy-Coat, LLC formulates, compounds, produces and finishes to final product all its outdoor PhotoLuminescent Exit Path Marking Systems being applied and installed for Local Law 26 in New York City, so total control of all aspects of its operations are known to me, and I can unequivocally state that our facility does not violate any possible Patent Infringement Violations that Nemoto & Co. of Tokyo Japan has against any other pigment supplier.

General Vy-Coat, LLC only uses Nemoto & Co. pigments in all its PhotoLuminescent products and will continue to do so. A letter to that affect can be obtained from Nemoto & Co. and its supplier United Mineral.

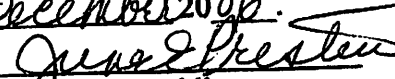
Sincerely,



Ira Chaimovits
Vice President
General Vy-Coat
11/29/06

IC/dd

Sworn to before me this 5th day
of December 2006.



Notary Public

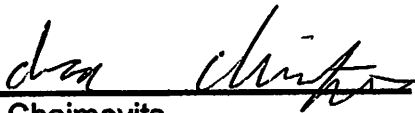
June E. Prestino
Notary Public, State of New York
No. 01PR6118780
Qualified in Kings County
Commission Expires Nov. 22, 2008

General Vy-Coat, LLC
109 Kero Road
Carlstadt, NJ USA 07072
201-939-4471 Fax 201-939-2845

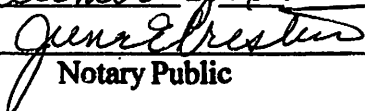
November 29, 2006

General Vy-Coat, LLC formulates, compounds, produces and finishes to final product all its outdoor PhotoLuminescent Exit Path Marking Systems being applied and installed for Local Law 26 in New York City, so total control of all aspects of its operations are known to me, and I can unequivocally state that no process or chemicals contain any radioactive materials. All our products are 100 percent non-radioactive.

Sincerely,


Ira Chaimovits
Vice President
General Vy-Coat
11/29/06

IC/dd

Sworn to before me this 5th day
of December 29th 06.

Notary Public

June E. Prestino
Notary Public, State of New York
No. 01PR6118780
Qualified in Kings County
Commission Expires July 22, 20 08

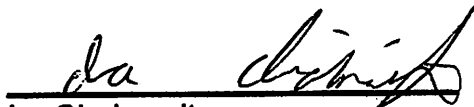
General Vy-Coat, LLC
109 Kero Road
Carlstadt, NJ USA 07072
201-939-4471 Fax 201-939-2845

November 29, 2006

General Vy-Coat formulates, compounds, produces and finishes to final product all its outdoor PhotoLuminescent Exit Path Marking Systems being applied and installed for Local Law 26 in New York City, so total control of all aspects of its operations are known to me, and I can unequivocally state that no manufacturing process or chemicals have been altered from the test samples with our model numbers that were submitted to V-tec Laboratories at 212 Manida Street, Bronx NY and presented to you for evaluation for MEA approval.

Any new items or changes to our PhotoLuminescent products that will be applied to Local Law 26 in New York City will be submitted to a qualified lab for testing and again submitted for MEA approval.

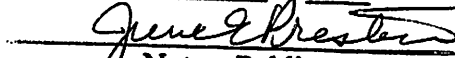
Sincerely,



Ira Chaimovits
Vice President
General Vy-Coat
11/29/06

IC/dd

Sworn to before me this 5th day
of December 20 06.


Notary Public

Gene E. Prestino
Notary Public, State of New York
No. 01PR6118780
Qualified in Kings County
Commission Expires Nov. 22, 2008



VTEC LABORATORIES INC.



FACSIMILE TRANSMITTAL COVERSHEET

DATE	29 NOV 06	PAGES (INCL. COVER)	
TO	FRA	FROM	NEIL
COMPANY	GENERAL VY-CORP	SUBJECT	MEA APPL. OUTDOOR PRODUCT
FAX #	718. 946-5657	PHONE #	917-648-4690

FRA Review all the attached documents - you will need to do following:

- 1- 600 check to New York City Department of Buildings
- 2- Review MEA 1+2, if ok sign - where indicated.
- 3- Review MEA 3 - note ^{added} ~~new~~ OD to p/n
- 4- check Trade Name sheet
- 4A - Develop another set of notarized affidavits (3)
- 5- Produce another set of signage in color including the $\odot \Delta$
- 6- Redo brochure for outdoor product
- 7- Sample material

send all back as listed above (Fed-Ex) including MEA 1&2. I will process and FedEx to Sun.

Neil



NYC Department of Buildings
 280 Broadway, New York, NY 10007
 Patricia Lancaster, FAIA, Commissioner
 (212) 566-5000, TTY: (212) 566-4769

**Report of Materials and
 Equipment Acceptance Division**

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use subject to the terms and conditions contained herein.

MEA 364-05-M

Manufacturer: GENERAL VY-COAT
 109 KERO ROAD
 CARLSTADT, NEW JERSEY 07072.

Trade Name(s): GlowScape Outdoor

Product: Photoluminescent Signs and Markings.

Pertinent Code Section(s): 27-383(b), Reference Standards RS 6-1 and RS 6-1A.

Prescribed Test(s):

1. Brightness Ratings – ISO 17398:2004.
2. Washability ASTM D 4828-1994 (2003).
3. Radioactivity ASTM D 3648-2004.
4. Toxicity Bombardier SMP 800-C.
5. Flame Spread - ASTM D 635-2003.
6. UV Degradation ASTM G155 / G151

Laboratories: VTEC Laboratories, Inc.; California Institute of Electronics; and Material Science.

Test Report(s): CIEM 950280503-1 dated August 30, 2005, CIEM 950390020-1 September 2, 2005. V100-2216-1, 2 dated August 25, 2005. V100-2216-1 dated August 5, 2005. V100-2468, CIEM 1060290802-2

Description – Vinyl Photoluminescent Material .010 mils Thick Applied to a Rigid Aluminum Substrate .025 mils thick.

<u>Catalogue Description</u>	<u>Size (inches) (approx)</u>	<u>Model No.</u>
Door Handle Plate	4" x 4"	GS-4XDHP-OD
Arrow Horizontal/Vertical	4.75" x 4.75"	GS-4X4DHP-OD
Arrow Diagonal	4.75" x 4.75"	GS-4644AS-OD
Person Left	4.75" x 4.75"	GS-4644AD-OD
Person Right	4.75" x 4.75"	GS-4644PL-OD
Exit Sign	4.75" x 9.50"	GS-4644PR-OD
Final Sign	4.75" x 9.50"	GS-4688ES-OD
Exit To Street	4.75" x 9.50"	GS-6888FE-OD
Lobby	4.75" x 9.50"	GS-5788TS-OD GS-5588TL-OD

Through	4.75" x 9.50"	GS-5588T-OD
Not An Exit	4.75" x 9.50"	GS-4688ES-OD
Custom Exit Complete	10" x 14"	GS-1014ES-OD
Stair Tread "L" Left	1" x 3" x 9"	GS-147SLL-OD
Stair Tread "L" Right	1" x 3" x 9"	GS-147SLR-OD
Stair Tread "L" Left	2" x 4" x 9"	GS-122SLL-OD
Stair Tread "L" Right	2" x 4" x 9"	GS-122SLR-OD
Demarcation Wall/Floor Strips	1" Wide x 12"	GS-1258WF-OD
Demarcation Wall/Floor Strips	2" Wide x 12"	GS-1222WF-OD
Stair Railing Strips	1" Wide x 12"	GS-1258SR-OD
Landing Edge Strips	1" Wide x 12"	GS-1254SE-OD
Panic Bar Strips	1" Wide x 12"	GS-1254PB-OD
Obstacle Stripe Strips	1" Wide x 12"	GS-1258OS-OD
Obstacle Stripe Strips	2" Wide x 12"	GS-1222OS-OD

Terms and Conditions: The catalogue description items shall be accepted on condition that:

1. Pathway markings of green color shall be in compliance with ANSI Z535.1 Safety Color Code.
2. Arrows and egress symbols shall comply with ISO 7010 E001, E002, E003 and E004.
3. All approved materials shall be labeled and identified with the model number as well as the MEA No. 364-05-M and BR rating 60, 15, 9 in a minimum of six point type with at least one such identification on each item of material installed in accordance with RS 6-1.
4. No radioactive materials are used.
5. All signs and markings shall conform to the pictorial representations submitted with this application.
6. All models directing persons to exits are to be installed at a low location so as not to confuse with other required exit signage.
7. Non additional transparent or translucent overlaminates, varnishes, or other coatings be applied to the photoluminescent portions of the marking.
8. This acceptance is limited to the materials used and does not include the installation for compliance with 27-383(b) and Reference Standard 6-1, which is the responsibility of the building owner.



Materials or Equipment Acceptance Application

Please File 1 Copy
Application Must be Typewritten

Internal Use
MEA Number
Date Received

1 Acceptance Type		
<input checked="" type="checkbox"/> Materials	<input type="checkbox"/> Equipment	<input type="checkbox"/> Other

2 Application Type		
<input checked="" type="checkbox"/> Original	<input type="checkbox"/> Amendment	<input type="checkbox"/> Other

3 MEA Number

4 Application Information			
Applicant		Filing Test Report(s)	
Name Ira Chaimovits	Title Vice President	<input checked="" type="checkbox"/> Testing Laboratory	<input type="checkbox"/> Professional
Business Name General Vy-Coat		<input type="checkbox"/> Registered	
Address 109 Kero Road		Name VTEC Laboratories Inc.	
City Carlstadt	State NY	Zip 10474	Phone 718-542-8248
State NJ	Zip 07072-4471	Phone 201-939-4471	License Number
Owner or Authorizing Agent		<input type="checkbox"/> Testing Laboratory	<input type="checkbox"/> Professional Engineer
Name Ira Chaimovits	Title Vice President	<input type="checkbox"/> Registered Architect	
Address 109 Kero Road		Name	
City Carlstadt	State NJ	Zip 07072-4471	Phone 201-939-4471
State NJ	Zip 07072-4471	Phone 201-939-4471	License Number

5 Material/Equipment Information			
Material/Equipment Trade Name		Manufacturer	
GlowScope Outdoor		Name General Vy-Coat	
Sections of Law Pertinent to Use of Materials/Equipment		Address 109 Kero Road	
Building Code 27-383(b)	Ref. Std. 6-1 & 6-1A	City Carlstadt	
Local Law 26 of 2004		State NJ	Zip 07072-4471
Individual Products		Phone 201-939-4471	
Model Number(s) For additional items, list on separate 8 1/2 x 11 typed sheets and attach to application.			

Description, Including Intended Use
 General Vy-Coat photoluminescent exit path marking systems are manufactured to comply with the minimum requirements of Local Law 26 (2004) RS 6-1 and RS 6-1A. General Vy-Coat photoluminescent exit path marking system has an aluminum substrate which complies with all the required performance for flammability, toxicity, washability, radioactivity and brightness. The sheet product can be used for exit path markings, door signs, wall mounted signs, steps, leading edge at landings, handrails, floor perimeter demarcation lines, obstacle hazard marking, directional signage, door hardware, door trim and other signs. These products are suitable for outdoor application.

6 Data Filed with Application		
<input type="checkbox"/>	Catalogs	
<input checked="" type="checkbox"/>	Drawings	
<input type="checkbox"/>	Engineering Data	

7 Previous Filings	
MEA Number	BSA Calendar Number
	Approved Granted

8 Statements and Signature	
I hereby certify that the materials submitted for acceptance has either been tested for compliance with Building Code Requirements under a test method prescribed by the Building Code.	A check payable to the DEPARTMENT OF BUILDINGS must accompany this application: \$600 for an original application, \$500 for an amendment.
Falsification of any statement is a misdemeanor under Section 26-124 of the Administration Code and is punishable by a fine or imprisonment, or both.	Applicant Name Ira Chaimovits
It is unlawful to give to a city employee, or for a city employee to accept, any benefit, monetary or otherwise, either as a gratuity for properly performing the job or in exchange for special consideration. Violation is punishable by imprisonment or fine, or both.	Signature <i>Ira Chaimovits</i> Date 29 Nov 06
	Owner or Authorizing Agent Name Ira Chaimovits
	Signature <i>Ira Chaimovits</i> Date 29 Nov 06

Internal Use		
Check Number	Date	Amount

THE CITY OF
NEW YORK



DEPARTMENT OF BUILDINGS

Testing Laboratory, Professional Engineer or Registered Architect Statement

Please File 1 Copy
Application Must Be Typewritten

Internal Use
MEA Number
Date Received

1 Professional Type		
<input checked="" type="checkbox"/> Testing Laboratory	<input type="checkbox"/> Professional Engineer	<input type="checkbox"/> Registered Architect

2 MEA Number

3 Testing Laboratories, P.E. or R.A. Information		
Name California Institute of Electronics and Materials Science		
Address 2115 Flame Tree Way		
City Hemet		
State CA	Zip 92545	Phone 951-929-2659
License Number 104-01-L		

4 Materials/Equipment Information			
Manufacturer General Vy-Coat			
Material/Equipment Trade Name GlowScape Outdoor			
Description			
General Vy-Coat photoluminescent exit path marking systems are manufactured to comply with the minimum requirements of Local Law 26 (2004) RS 6-1 & RS 6-1A. General Vy-Coat photoluminescent exit path marking system has an aluminum substrate which complies with all the required performance for flammability, toxicity, washability, radioactivity and brightness. The sheet product can be used for exit path markings, door signs, wall mounted signs, steps, leading edge at landings, handrails, floor perimeter demarcation lines, obstacle hazard markings, directional signage, door hardware, door trim, and other signs. These products are suitable for outdoor application.			
Sections of Law Under Which Tests Have Been Conducted			
Building Code 27-383(b)	Ref. Std. RS 6-1 & 6-1A		
Local Law 26 of 2004	ASTM G155 / G151 UV		
Your Test Report Numbers			
CIEMS 1060290802-2 20 Sept 2006 (VTEC Project V100-2468 for General Vy-Coat)			

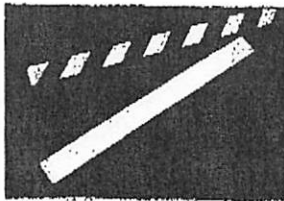

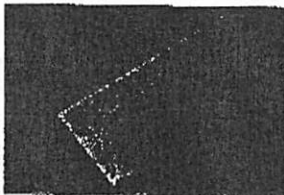
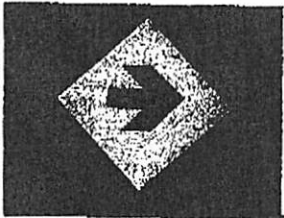
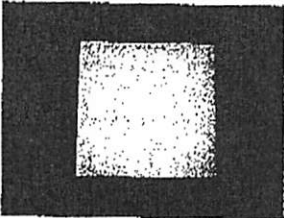


5 Statement of Signature	
Falsification of any statement is a misdemeanor under Section 26-124 of the Administrative Code and is punishable by a fine or imprisonment, or both.	Bribery is a Crime. A person who gives or offers a bribe to any employee of the City of New York or an employee who takes or solicits a bribe, is guilty of a felony punishable by imprisonment or a fine, or both.
Director of Testing Laboratory, Engineer or Architect Statement	Owner or Authorizing Officer Statement
This is to certify that the tests have been performed by competent personnel under my supervision and are in conformance with the Administrative Code.	Authorization is hereby given to the above named applicant to perform the above required tests, and to submit to the Department of Buildings signed test results.
Director of Testing Laboratory, Engineer or Architect Name Dr. Lev Berger	Owner or Authorizing Officer Name Ira Chaimovits
Signature _____ Date 29 nov 06	Signature Date 29 Nov 06
For Architects and Engineers Only	
Seal	

MEA-2 Revised 2-88

GlowScape Products*

Phone 201-939-4471 Fax 201-939-2845

CALL NOW
TO
COMPLY!

		<u>Quantity</u>	<u>Quantity</u>
	Landing Edge	GS-1254SE -00	
	Stair Railing	GS-1258SR -00	
	Panic Bar	GS-1254PB -00	
	Wall/Floor Strip	GS-1258WF -00	GS-1222WF -00
	Obstacle Stripes	GS-1258OS -00	GS-1222OS -00
		<i>1" x 8'</i>	<i>2" x 8'</i>
	Exit Sign	GS-4688ES -00	GS-1014ES -00
		<i>4 3/4" x 9 1/2"</i>	<i>10" x 14"</i>
	L-Shaped Stair Tread		
	Left	GS-147SLL -00	GS-1222SLL -00
	Right	GS-147SLR -00	GS-1222SLR -00
		<i>1" x 3" x 9"</i>	<i>2" x 3" x 9"</i>
	Horizontal/Vertical Arrow		GS-4644AS -00
	Diagonal Arrow		GS-4644AD -00
			<i>4 3/4" x 4 3/4"</i>
	Door Handle Plate		GS-4X4DHP -00
			<i>4" x 4"</i>
	Left Person Sign		GS-4644PL -00
	Right Person Sign		GS-4644PR -00
			<i>4 3/4" x 4 3/4"</i>
	Exit to Street Sign		GS-5788TS -00
	Exit through Lobby Sign		GS-5588TL -00
	Final Exit Sign		GS-6888FE -00
	Not an Exit Sign		GS-4688ES -00
			<i>2 1/2" x 9 1/2"</i>

*All products are aluminum backed

GENERAL VY-COAT

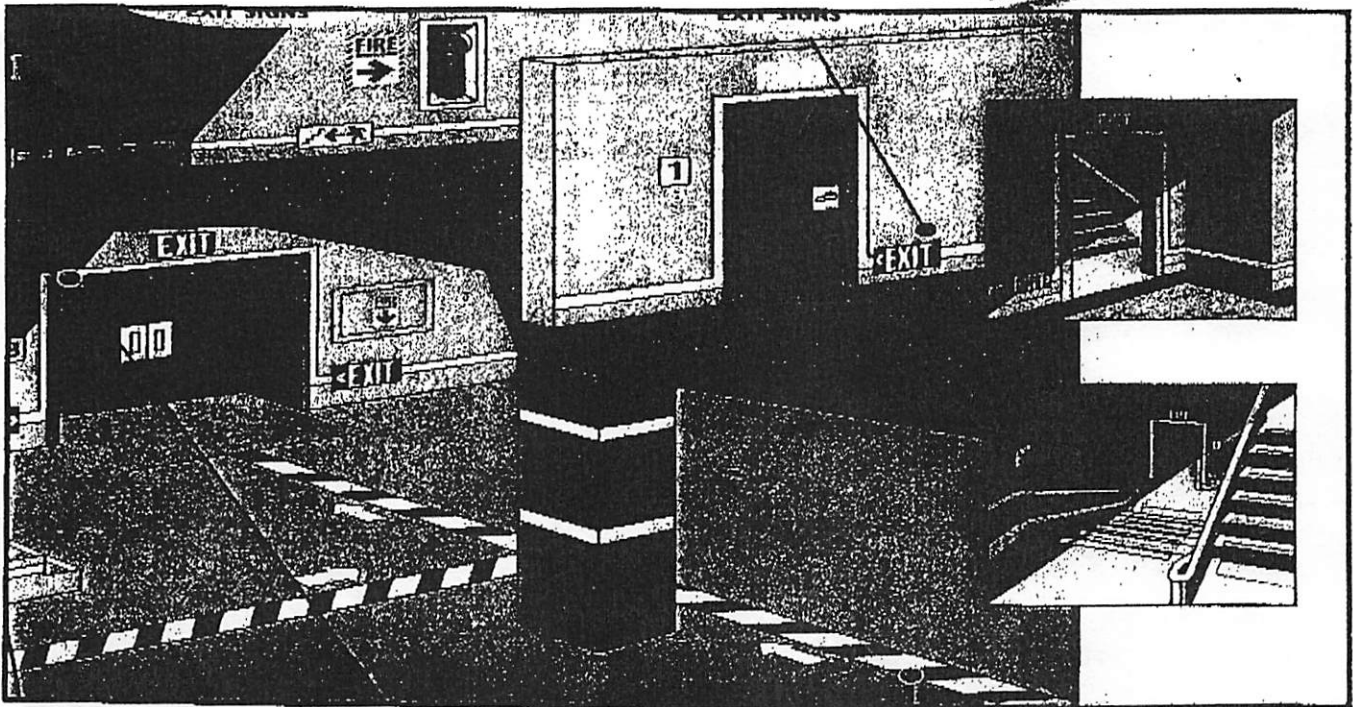
proudly presents...

GlowScape Products

FOR OUTDOOR APPLICATION

Our photoluminescent material is compliant with New York City local law 26 (BC standard RS6-1 and 6-1A). Our product has successfully passed all tests gauging its brightness, washability, toxicity, radioactivity, flame spread, and UV degradation.

Proudly manufactured 100% in the United States!



SEE OUR EMERGENCY EVACUATION PRODUCTS ON THE REVERSE FOR PRODUCT INFORMATION.

- *Our company specializes in custom products, accommodating all of your specific needs.*
- *We also offer professional consulting and we provide installation services.*

109 KERO RD, CARLSTADT, NJ 07072
201-939-4471 fax 201-939-2845

Visit our website: glowscape@aol.com

**CALL NOW
TO
COMPLY!**

CERTIFICATE OF COMPLIANCE

Certificate Number 20140827-SA44231
Report Reference SA44231-20140827
Issue Date 2014-AUGUST-27

Issued to: General VY-Coat LLC
1725 Avenue M
Brooklyn NY 11230

This is to certify that
representative samples of

LUMINOUS EGRESS-PATH-MARKING SYSTEMS
Photoluminescent Floor proximity egress path marking,
Glowscape Series, Models GS-4X4DHP, GS-4644AS, GS-
4644AD, GS-4644PL, GS-4644PR, GS-4688ES, GS-
6888FE, GS-5788TS, GS-5588TL, GS-5588T, GS-4688ES,
GS-1258WF, GS-1222WF, GS-1258SR, GS-1254PB, GS-
1258OS, GS-1222OS, GS-147SLL, GS-147SLR, GS-
122SLL and GS-122SLR.

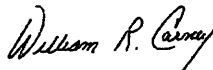
Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 1994, Luminous Egress Path Marking Systems
Additional Information: See the UL Online Certifications Directory at
www.ul.com/database for additional information

Only those products bearing the UL Listing Mark should be considered as being covered by UL's
Listing and Follow-Up Service.

The UL Listing Mark generally includes the following elements: the symbol UL in a circle:  with the
word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category
name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product.



William R. Carney, Director, North American Certification Programs
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please
contact a local UL Customer Service Representative at www.ul.com/contactus



File SA44231
Project 4786522447

August 27, 2014

REPORT

On

LUMINOUS EGRESS PATH-MARKING SYSTEMS

GENERAL VY-COAT LLC
Brooklyn , NY

Copyright © 2014 UL LLC

UL LLC authorizes the above named company to reproduce this Report only for purposes as described in the Conclusion, provided it is reproduced in its entirety.

PRODUCT COVERED:

USL - Photoluminescent Floor proximity egress path marking, Glowscape Series, Models GS-4X4DHP, GS-4644AS, GS-4644AD, GS-4644PL, GS-4644PR, GS-4688ES, GS-6888FE, GS-5788TS, GS-5588TL, GS-5588T, GS-4688ES, GS-1258WF, GS-1222WF, GS-1258SR, GS-1254PB, GS-1258OS, GS-1222OS, GS-147SLL, GS-147SLR, GS-122SLL and GS-122SLR.

Glowscape Series

Model No.	Catalogue Description	Size (inches) (approx)
GS-4X4DHP	Door Handle Plate	4" x 4"
GS-4644AS	Arrow Horizontal/Vertical	4.75" x 4.75"
GS-4644AD	Arrow Diagonal	4.75" x 4.75"
GS-4644PL	Person Left	4.75" x 4.75"
GS-4644PR	Person Right	4.75" x 4.75"
GS-4688ES	Exit Sign	4.75" x 9.50"
GS-6888FE	Final Sign	4.75" x 9.50"
GS-5788TS	Exit To Street	4.75" x 9.50"
GS-5588TL	Lobby	4.75" x 9.50"
GS-5588T	Through	4.75" x 9.50"
GS-4688ES	Not An Exit	4.75" x 9.50"
GS-1258WF	Demarcation Wall/Floor Strips	1" Wide x 12"
GS-1222WF	Demarcation Wall/Floor Strips	2" Wide x 12"
GS-1258SR	Stair Railing Strips	1" Wide x 12"
GS-1254PB	Panic Bar Strips	1" Wide x 12"
GS-1258OS	Obstacle Stripe Strips	1" Wide x 12"
GS-1222OS	Obstacle Stripe Strips	2" Wide x 12"
GS-147SLL	"L" SHAPED MARKER LEFT	1" X 3" X 9"
GS-147SLR	"L" SHAPED MARKER RIGHT	1" X 3" X 9"
GS-122SLL	"L" SHAPED MARKER LEFT	2" X 4" X 9"
GS-122SLR	"L" SHAPED MARKER LEFT	2" X 4" X 9"

GENERAL:

This product complies with the Standard of Underwriters Laboratories Inc. for Luminous Egress Path Marking Systems (UL 1994) and the Description on the following pages.

These are photo-luminescent markers intended to be installed at or near the floor level of hallways and other areas in buildings to identify emergency egress routes.

The photo-luminescent materials are activated by exposure to existing ambient lighting. They have been evaluated for activation by fluorescent lighting of minimum 1 foot-candle, and are so noted in the instructions provided.

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

USL - indicates product complies with the Standard for Luminous Egress Path Marking Systems, UL 1994.

MARKING:

A marking that is required to be permanent shall be molded, die-stamped, paint-stenciled, stamped, or etched metal that is permanently secured, or on pressure-sensitive labels that comply with the applicable provisions of the Standard for Marking and Labeling Systems, UL 969.

Each system component shall be marked and be visible during installation with the following. Marking may be applied to packaging:

Floor proximity egress path marking systems:

1. The manufacturer's or private labeler's name or identifying symbol.
2. A distinctive type, model, or material designation.
3. The phrase "Egress Path Marker" in minimum 1/4-inch (6.3 mm) high letters.

Floor identification signs:

1. The manufacturer's or private labeler's name or identifying symbol.
2. A distinctive type, model, or material designation.

INSTALLATION INSTRUCTIONS: See Illustration 1 for details. In addition the following shall be provided as part of the installation instructions:

Installation and operating instructions shall be furnished with each system and accessory. The installation instructions shall illustrate proper placement of the system with respect to mounting locations, space between luminous segments, changes in direction, doorways, etc., including, but not limiting to the following or equivalent statements:

Floor proximity egress path marking systems:

- a) "The mounting height of floor proximity path markers is to be in accordance with local and national codes but is not to exceed 18 inches (45.7 cm) above finished floor height."
- b) "The spacing between the corner of a change in direction of the path of egress and the luminous segment is not to exceed 4 inches (10.2 cm)."

Floor identification signs:

- a) The mounting height of floor identification signs is to be in accordance with local and national codes.

Floor proximity egress path marking systems and floor identification signs:

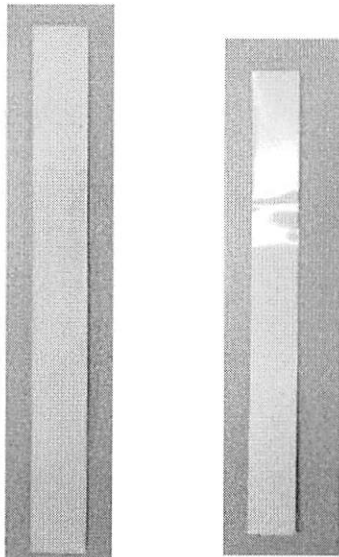
Instructions provided with each photo-luminescent marking system shall include:

- a) The minimum amount and type of ambient illumination necessary for the photo-luminescent system to function as intended,
- b) An instruction that the control of the ambient illumination be restricted to authorized personnel, and
- c) A warning against the use of the system where the ambient illumination level is less than the minimum specified value.
- d) Information on any building surface treatment necessary prior to installation,
- e) Mounting instructions,
- f) Periodic maintenance instructions, and
- g) Periodic inspection procedures, including reference to applicable local or national model codes.
- h) Cleaning instructions for the stair nosing product.





Glowscape Series - Fig. 1

General - The general design, shape, and arrangement shall be as shown in Fig. 1.

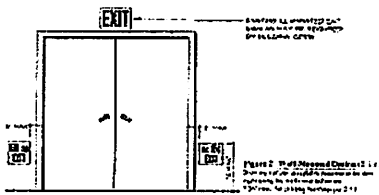
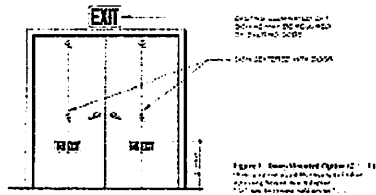
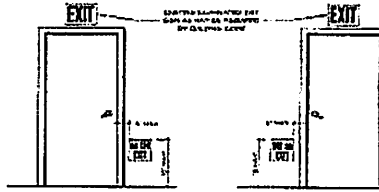
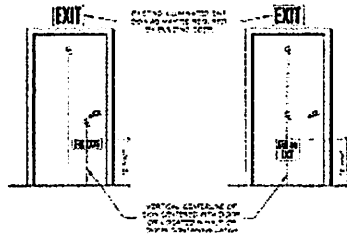
1. Extruded aluminum products, with photo-luminescent. Combined width of photo-luminescent material shall not be less than 1 inch. Maybe provided with black stripes. The overall width and length may vary based on the specific application, but the width of photoluminescent portion shall not be less than 1". Also include symbols or letters as indicated in ILL. 1. Maximum height of the word "EXIT" and the pictogram "running man" can't exceed 4.75 inches.
2. Photo-Luminescent Compound - Designated Photoluminescent material by United Mineral and Chemical Corporation, Grade G-300STM.



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<p>MEAF 364-05-M</p>  <p>(Lights On)</p>	<p>PERSON SIGN</p> <p>LEFT PERSON SIGN 475" X 475" GS444PL</p> <p>RIGHT PERSON SIGN 475" X 475" GS444PR</p>
<p>MEAF 364-05-M</p>  <p>(Lights Off)</p>	<p>EXIT SIGN</p> <p>EXIT SIGN 475" X 9.5" GS4488ES</p>
<p>MEAF 364-05-M</p>  <p>(Lights On)</p>	<p>ARROW SIGN</p> <p>DIGONAL ARROW 475" X 475" GS444AD</p> <p>HORIZONTAL ARROW 475" X 475" GS444AS</p> <p>VERTICAL ARROW 475" X 475" GS444AS</p>
<p>MEAF 364-05-M</p>  <p>(Lights Off)</p>	<p>CUSTOM SIGN</p> <p>NOT AN EXIT SIGN 475" X 9.5" GS4488ES</p> <p>THROUGH SIGN 475" X 9.5" GS5588T</p> <p>LOBBY SIGN 475" X 9.5" GS5588TL</p> <p>TO STREET SIGN 475" X 9.5" GS5788TS</p>

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SOLID STRIPES WALL/FLOOR GS 1258WF STAIR RAILING GS 1258SR LANDING EDGE GS 1254BE FRANC BAR GS 1254PB	(Lights On)	(Lights Off)	MEA# 364-05-M
1"			
OBSTACLE STRIPES	(Lights On)	(Lights Off)	MEA# 364-05-M
1 INCH GS 12580S			
L SHAPED STAIR TREAD SIGN	(Lights On)	(Lights Off)	MEA# 364-05-M
LEFT 1 INCH GS 147SLL RIGHT 1 INCH GS 147SLR			
1" X 3" X 9"			
DOOR HANDLE PLATE	(Lights On)	(Lights Off)	MEA# 364-05-M
4 INCHES X 4 INCHES GS 4X4DHP			

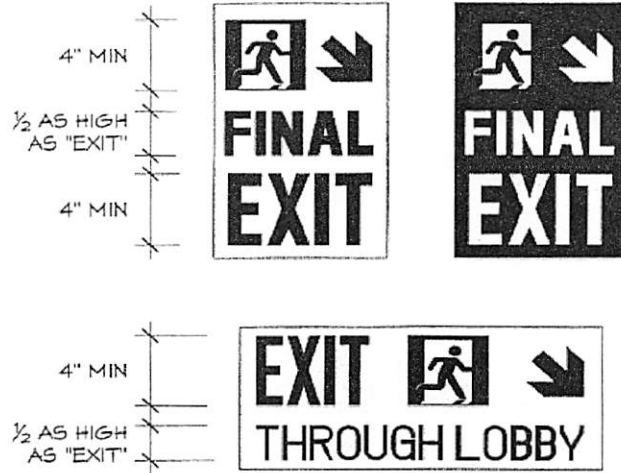


Figure 15 Final Exit Door Signs (2.2.9)
Showing various acceptable door signs for final exit doors

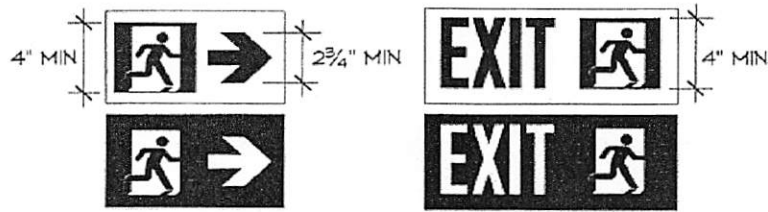


Figure 16 (2.2.6; 2.2.7; 2.3.1)
Showing positive and negative options for directional signs

Figure 17 (2.2.2.1; 2.3.1)
Showing positive and negative options for door-mounted door signs.

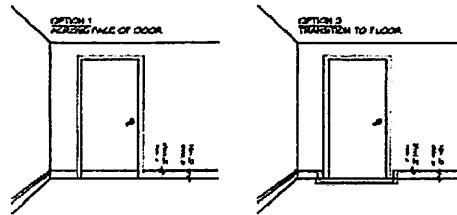


Figure 10. Perimeter Demarcation Lines (2.2.4.3)
Showing two alternative options of door frame marking.

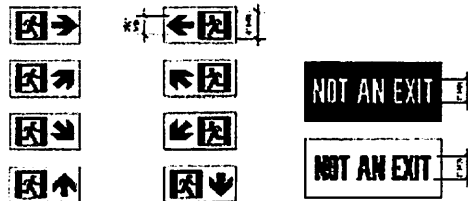


Figure 11. Directional Signage (2.2.6 and 2.2.7)

Figure 11. (1) (2)

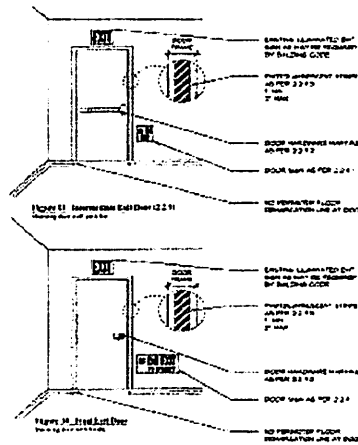


Figure 12. Emergency Exit Sign (2.2.9)
Showing door and sign.

Figure 12. Emergency Exit Sign (2.2.9)
Showing sign and sign.

TEST RECORD NO. 1

SAMPLES:

A sample of the Photoluminescent Floor proximity egress path marking, Glowscape Series, Models GS-4X4DHP, GS-4644AS, GS-4644AD, GS-4644PL, GS-4644PR, GS-4688ES, GS-6888FE, GS-5788TS, GS-5588TL, GS-5588T, GS-4688ES, GS-1258WF, GS-1222WF, GS-1258SR, GS-1254PB, GS-1258OS, GS-1222OS, GS-147SLL, GS-147SLR, GS-122SLL and GS-122SLR as indicated below and constructed as described herein, was submitted by the manufacturer for examination and test.

Models GS4644PR, GS4644AD and GS1258OS were used for testing purposes and considered representative of all other models in the Glowscape Series as indicated above.

GENERAL:

Test results relate only to the items tested.

The following tests were conducted:

Visibility Test:	UL 1994, Section 35
Luminance Measurement Test:	Follow-Up Test
Infrared Analysis (IR) (Production Surveillance)	Follow-Up Test

Test Record Summary:

The results of this investigation, including construction review and testing, indicate that the products evaluated comply with the applicable requirements in the standards noted below and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Standard	Title	Edition or Publication Date	Revision Date
UL 1994	Luminous Egress Path Marking Systems	3rd	November 9, 2010

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.
Report.

CONCLUSION

Samples of the product covered by this Report have been found to comply with the requirements covering the category and the product is found to comply with UL's applicable requirements. The description and test result in this Report are only applicable to the sample(s) investigated by UL and does not signify UL certification or that the product(s) described are covered under UL's Follow-Up Service Program. When covered under UL's Follow-Up Service Program, the manufacturer is authorized to use the UL Listing Mark on such products which comply with UL's Follow-Up Service Procedure and any other applicable requirements of UL LLC. The Listing Mark of UL LLC on the product, or the UL symbol on the product and the Listing Mark on the smallest unit container in which the product is packaged, is the only method to identify products investigated by UL to published requirements and manufactured under UL's Listing and Follow-Up Service.

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Staff Engineer