



# ALUMI-GRESS™

## Photoluminescent Signs & Egress Pathway Indicators

### Product Schedule

v9.1.07



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## Our Commitment...

To assist you in implementing effective emergency evacuation systems using expertise to develop a reliable life-safety system that you can trust to work when you need it.

## Our Promise...

You will get a fail-safe emergency egress system that works how you want it to - when you want it to.

## Our Goal...

The aim of every **Safety Step Egress** life safety system is to provide each building occupant with a highly visible and easily understood exit route regardless of their location. We will assist you to implement a fully integrated system that will reduce disorientation, minimize panic and allow fast, sure footed exit - even under extreme conditions that you hope never occur.

### Fact:

The single biggest factor contributing to death in building fires is smoke; people become trapped when they can't find familiar landmarks and succumb to smoke, toxic fumes or heat.

# EMERGENCY EVACUATION SCENARIO

pg4

Imagine you work on the 14th floor of a high rise building. You're returning from a meeting on the 22nd floor when suddenly you smell smoke. Moments later, the fire alarm sounds and then power is lost. The smoke is getting heavier. Familiar surroundings become unknown...you begin to panic.

You need to get out of the building and time is of the essence. As you open the door and attempt to proceed for the stairwell the smoke thickens. The EXIT sign located above the door you normally use is obstructed by smoke. You crouch down to get below the smoke and duck-walk along the wall – searching for the door leading to the stairs.



Visible EXIT Sign



EXIT Sign obscured by smoke

Anxiously you open a door thinking it's the right one – only to discover the maintenance closet. Must be the next one...although you now realize you've never really given the exit doors a second thought. "They will always be visible given the battery back-up exit signs" was your reasoning...until now.

Finally, you reach the door leading to the stairwell. You struggle to locate the door handle and open it to discover it is pitch black. You hear others entering the stairwell from floors above and below you – and it is beginning to get chaotic. Building occupants attempt to descend the stairs to their best abilities, however water from the fire suppression system cascades down the steps – adding to the confusion. Those attempting to navigate the steps begin to slip and fall. Do you continue to make your way down the steps, or look for a door to the next floor? Will you make it out in time?

## Fact:

"Only 8% of survivors from over 400 different fires remember seeing EXIT signs during their escapes."  
J.L. Bryan - University of Maryland.

The above scenario can occur anywhere. Fortunately, a photoluminescent (PL) egress system from **Safety Step Egress** can minimize the panic when fire strikes and power outages occur.

# HOW PHOTOLUMINESCENT EGRESS SYSTEMS WORK

pg5

Let's imagine this time you work on the 14th floor of a high rise building that has installed a PL egress system from **Safety Step Egress** in tenant side corridors and exit stair wells. In addition, the building manager has taken the sensible action by installing the egress system at a low (below knee height) level.

Now, as you're returning from that meeting on the 22nd floor the smell of smoke and fire alarm invoke a sense of urgency – but there's no panic. As your building loses power, you are guided to the nearest EXIT by the fail-safe PL system. The light that has been absorbed by the egress indicators is now illuminating your way out! The smoke that thickens and obscures the EXIT sign above the door doesn't affect your ability to see the glowing arrows installed 6" from the floor guiding you to the nearest exit. The doors you encounter are clearly marked indicating which lead to safety and those that do not – providing the confidence required to exit the building in a rapid, controlled fashion.

As you open the door to the exit stairwells, you are greeted by a luminous egress system providing instant spatial guidance and the ability to navigate the stairs in an orderly manner. Other evacuees are being guided by the step markers, hand rail indicators, and landing perimeter markings. As an added benefit, you're comforted by the **Safety Step Egress** glowing stair nosing – an innovative combination of anti-slip inserts and photoluminescent strips that have been installed on each step. The cascading water from the fire suppression system doesn't create a slip hazard since the aggressive anti-slip inserts provide the sure footing required to descend steps rapidly. The leading edge of each step is clearly visible, made possible by the PL strip that spans nearly the entire width of every step.



*Photoluminescent safety signs and egress systems available from **Safety Step Egress** glow clearly in complete darkness and illuminate a safe evacuation route when the way out is poorly lit or obscured.*

## Fact:

Evacuees aren't the only beneficiaries of fail-safe PL egress systems. Incoming firefighters are guided by photoluminescent materials installed on stair and handrails, when emergency back-up systems fail.

As you descend the steps, you are aware of your location at each floor since they are clearly identified with the appropriate floor number. You make your way to the ground floor and exit the burning building to safety.

## WHAT IS PHOTOLUMINESCENCE(PL)?

pg6

Photoluminescence is a term describing the ability of certain natural minerals to absorb light and then re-emit that light in a controlled manner over time. Simply stated, photoluminescent minerals “glow in the dark” and are able to store and release light based on their chemical nature.

These minerals are extremely stable, non-toxic and non-radioactive. The pigments used in **Safety Step Egress** photoluminescent safety signs and egress indicators are safety grade Strontium Aluminate (SrAl) minerals – proven far superior to the novelty grade (Zinc Sulfide ZnS) pigments popular years ago. Strontium Aluminate glows more than 10 times brighter than equal amounts of Zinc Sulfide and have an afterglow life measured in hours, as opposed to minutes.

The SrAl pigment used by **Safety Step Egress** is charged by exposure to light sources such as fluorescent, incandescent, or unfiltered UV light – and will emit luminance after the activating light source is unavailable. The pigment’s energy-absorption, light-emission cycles can be repeated indefinitely.



In Light



In Darkness

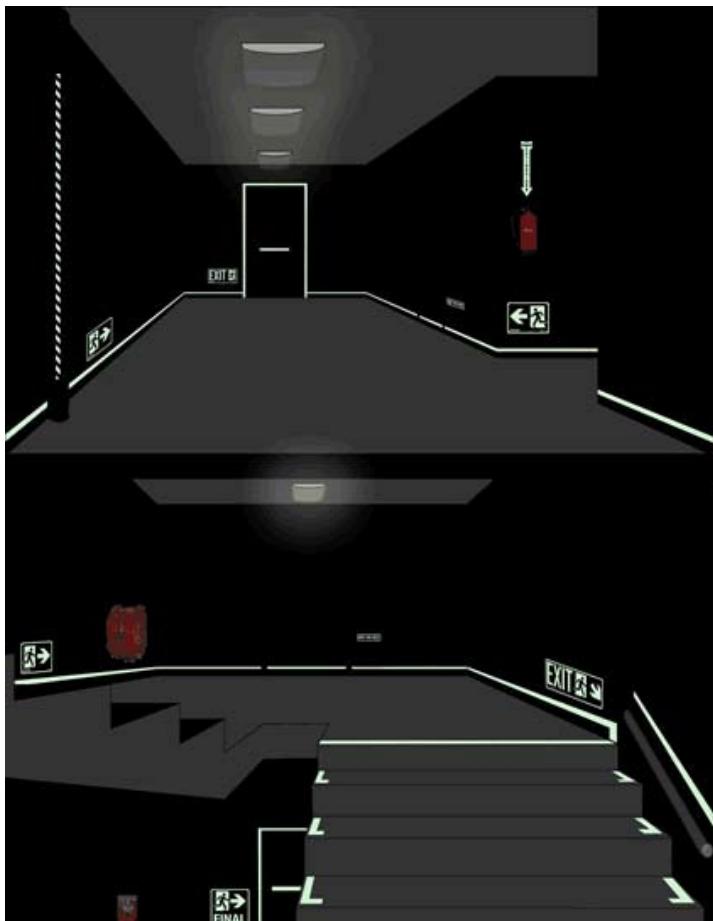
### Fact:

The NFPA 101 Life Safety Code specifically states that photoluminescent signage may be used to supplement, and in many cases replace electrical EXIT signs and other safety signage.

# LOW LOCATION PHOTOLUMINESCENT EGRESS SYSTEM

pg7

Photoluminescent (PL) safety egress systems are instrumental in increasing the effectiveness of life safety in tall buildings. A fully reliable evacuation system must not only be independent of electricity or mechanical device, but it must be fully functional under all conditions, including heavy smoke.



EXIT signs are critical indicators of evacuation routes in the event of a fire or loss of power – particularly if the exit route is not familiar to building occupants. In the early stages of fire, smoke will rise and travel along the ceiling – obstructing the view of exit signs located above doors.

During this critical time, fleeing occupants crouch down below the smoke level to avoid inhalation of smoke and toxic fumes. This behavior necessitates the use of low level PL egress systems – a series of fail-safe luminous directional arrows and pathway indicators guiding evacuees to the nearest exit – eliminating the tendency to second guess their chosen route and providing the confidence required to exit safely in the shortest length of time.

Photoluminescent signs and egress systems are the most durable and sensible life safety systems available on the market. PL systems are a core component of a complete life safety strategy. Building owners throughout the United States are making the choice to improve life safety and reduce liability by installing low location PL egress systems even before mandated to do so by new building codes. They're making the sensible choice to install the only fail-safe egress system available today!

## Fact:

The average person has less than a minute to exit a smoke filled building before surrendering to smoke inhalation, toxic fumes and heat.

# **ALUMI-GRESS™ MATERIAL SPECIFICATIONS**

pg8

## **Background:**

**ALUMI-GRESS™** photoluminescent signs and egress systems came into being as a result of the void that was created after the terrible events of September 11, 2001. Since that devastating day there has been a heightened awareness of building occupant safety. After 9-11, the New York marketplace was quickly swamped with low quality, high price point photoluminescent products.

Because of this, New York City has established some parameters and a minimum standard code which must be met in every commercial building within the city. This is the highest standard in the world, and **Safety Step Egress** has met these stringent compliance standards with our **ALUMI-GRESS™** line of photoluminescent signs.

**Safety Step Egress** provides this very high quality product at a price that sits well below the price that had been established by the "fly by night" companies who plagued the NYC market before us. We think you will find your experience with **ALUMI-GRESS™** as first-class – a "top shelf product at a competitive price".

## **Construction:**

The rigid backplate material is high-grade architectural quality aluminum sheet that offers high impact resistance, is water proof, corrosion proof and flame retardant. A multi layered ultra-high brightness photoluminescent material is permanently screened directly onto the prepared aluminum backing without the use of any adhesives.

An extremely hard, scratch resistant, wear resistant and UV resistant clear finish coat is then bonded over the entire front face of the product to prevent marking and facilitating ease of maintenance.

At the rear face is a 'peel and stick' adhesive layer enabling strong and permanent bonding to the wall or door.

## **FEATURES:**

- ✓ **Durable and reliable**
- ✓ **Non electrical**
- ✓ **Non toxic, non radioactive**
- ✓ **Permanently embedded graphics**
- ✓ **Vandalism resistant**
- ✓ **Washable**
- ✓ **Indoor/ outdoor use**
- ✓ **Fire resistant**
- ✓ **Minimal installation & maintenance expense**

## **Code Compliance:**

Safety Step Alumi-Gress signs are compliant with a wide range of codes and standards including:

NFPA Life Safety Code 101  
DIN 67510 Pt I & II  
IMO Res. A.752(18)  
ASTM E-2072-00  
1998 California Building Code and Fire Code

# ALUMI-GRESS™ MATERIAL SPECIFICATIONS

pg9

## Technical Information:

**Background:**  
Glowing photoluminescent green/yellow

**Standard Legend Colors:** GREEN or RED

**Formats Available:** Single or double sided.

**Mounting Options:**  
Unframed with four corner holes  
Framed for wall, side or ceiling mount.

**Flame Spread:**  
Flame Spread factor Fs 3.83 , Is33.7  
Meets ASTM E162 and RS6-1A

**Toxicity:**  
Tested to achieve compliance per  
BSS 7239 and RS6-1 / 6.1A

**Service Temperature:**  
-40°F to 158°F (-40°C to 70°C)

**Minimum Application Temperature:**  
50°F (10°C)

**Operational Life Expectancy:**  
20+ years.

**Warranty:**  
Ten Year limited warranty.

**Product Care:** Periodically clean the sign face with a damp cloth, and conduct periodic inspection to ensure the sign is clear and visible.

## Performance:

### Illumination Characteristics:

Illumination: 21.6 lux (2 foot-candles) for 2 hours with a 13 watt fluorescent lamp.

**Luminance (after illumination):**  
10 minutes > 93.5 mcd/m<sup>2</sup>  
60 minutes > 21.4 mcd/m<sup>2</sup>  
90 minutes > 14.3 mcd/m<sup>2</sup>

**Legible Viewing Distance:** 50 feet 6" characters  
75 feet 8" characters

**Charging Light Source:** 5-foot candles of fluorescent illumination must be present on the face at all times during building occupancy. After it is exposed under this light for 60 minutes, it will be visible and legible in total darkness to observation standing 50 feet away from the sign at least 90 minutes after all light has been extinguished.

## FEATURES & BENEFITS OF ALUMI-GRESS™ PHOTOLUMINESCENT SIGNS

**ALUMI-GRESS™** photoluminescent safety signs and egress pathway indicators are superior to Electric and Battery Powered signs:

- ✓ PL signs are fail safe – they always work.
- ✓ PL signs use the light around them – they consume no electricity and do not require electrical circuits.
- ✓ PL signs are maintenance free and do not require battery back-up. There are no bulbs to replace or batteries to check.
- ✓ PL signs are very durable and are not impacted by explosions or earthquakes, and are highly vandal resistant.
- ✓ PL signs are energy efficient and cost effective.
- ✓ PL signs and egress indicators comprise the only fully reliable evacuation system available today. They are the only products which function independent of electricity or mechanical intervention and are 100% reliable under all conditions, including heavy smoke.

**ALUMI-GRESS™** photoluminescent safety signs and egress indicators are superior to radioactive tritium signs:

- ✓ PL signs are non-radioactive, non-toxic and environmentally friendly.
- ✓ PL signs generate no hazardous radioactive waste.
- ✓ PL signs create no disposal problems – they are completely recyclable.
- ✓ PL signs do not expire – the pigment never loses the ability to absorb and re-emit light!

### Fact:

The majority of electrical EXIT signs are unreliable. Battery back-up systems fail regularly and bulbs burn out.

Additionally, they are easy to vandalize. The best approach is to replace hard wired or battery powered signs with PL EXIT signs which are far superior to electrical signs

## EXIT SIGNS [6" LETTERS]

pg11

**Letter Size: 6" Letter Height - 3/4" inch Stroke**  
**Dimensions: 8"x13" [200mmx325mm]**



5101



5102



5103



5104

**Letter Size: 6" Letter Height - 3/4" inch Stroke**  
**Dimensions: 8"x13" [200mmx325mm]**



5105



5106



5107



5108

## EXIT SIGNS [8" LETTERS]

pg12

**Letter Size: 8" Letter Height - 1" inch Stroke**

**Dimensions: 10"x17" [250mmx425mm]**

A red "EXIT" sign with a thick black outline, centered on a white background.

5109

A red "EXIT" sign with a thick black outline, flanked by a left-pointing arrow on the left and a right-pointing arrow on the right, centered on a white background.

5110

A red "EXIT" sign with a thick black outline, flanked by a right-pointing arrow on the left and a left-pointing arrow on the right, centered on a white background.

5111

A red "EXIT" sign with a thick black outline, centered on a white background.

5112

**Letter Size: 8" Letter Height - 1" inch Stroke**

**Dimensions: 10"x17" [250mmx425mm]**

A green "EXIT" sign with a thick black outline, centered on a white background.

5113

A green "EXIT" sign with a thick black outline, flanked by a left-pointing arrow on the left and a right-pointing arrow on the right, centered on a white background.

5114

A green "EXIT" sign with a thick black outline, flanked by a right-pointing arrow on the left and a left-pointing arrow on the right, centered on a white background.

5115

A green "EXIT" sign with a thick black outline, centered on a white background.

5116

**MEA APPROVED EXIT SIGNS AND  
EGRESS PATHWAY INDICATORS**  
[COMPLY WITH NEW YORK CITY LOCAL LAW 26. REFERENCE STANDARD RS6-1]

pg13

**OUR EXIT SIGNS ARE EASY TO INSTALL, WITH  
DIRECTIONAL ARROWS AND DETAILED LABELS  
TO ASSIST IN LOCATING EXITS RAPIDLY**



5117



5118



5119



5120



5121



5122



5123



5124



5125

**Size: 8"x8" [200mmx200mm]**



5126



5127



5130



5128



5129



5131

**Size: 8"x15.5" [200mmx387.5mm]**

**Size: 5"x12" [125mmx300mm]**



5132



5133



5134



5135



5136



5137



5138



5139

**Size: 5"x8" [200mmx387.5mm]**

[note: MEA listing pending]

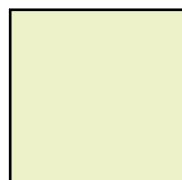
**ALUMI-GRESS™**  
Photoluminescent Signs & Egress Systems



# MEA APPROVED EXIT SIGNS AND EGRESS PATHWAY INDICATORS

[COMPLY WITH NEW YORK CITY LOCAL LAW 26. REFERENCE STANDARD RS6-1]

Door Handle Marker



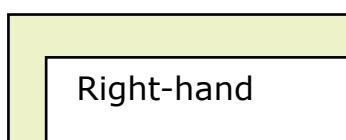
5201



5202

Size: 4"X4" [100mmx100mm]

Stair Tread Marking



5203

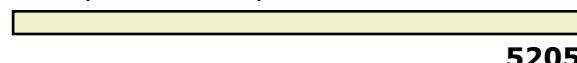


5204

Size: 3"X8" [75mmx200mm]

**SUITABLE FOR BOTH WALL/FLOOR MOUNT  
CAN EASILY BE CUT TO DESIRED LENGTH  
WITH STATIONARY SCISSORS**

Multiple Use Strips



5205

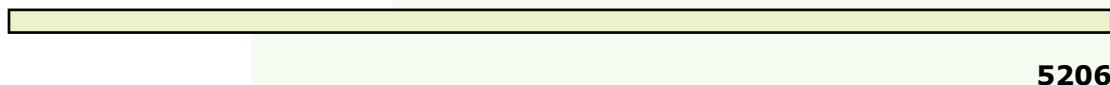
Obstacle Markers



5207

Size: 1"X39" [25mmx975mm]

Multiple Use Strips



5206

Obstacle Markers



5208

Size: 1"x78" [25mmx1950mm]

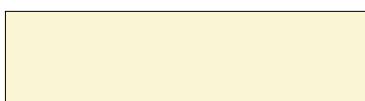
[note: MEA listing pending]

# EGRESS PATHWAY INDICATORS

pg15

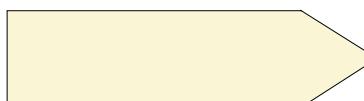
## LOW-LEVEL DIRECTIONAL INDICATORS

Rectangle



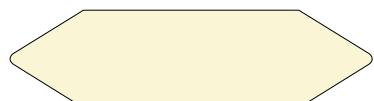
5209

Single-head Arrow



5210

Double-head Arrow

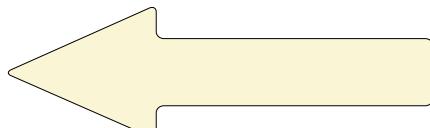


5211

Size: 1.25" x 4.75" [31.25mm x 118.75mm]

## WALL MOUNT ARROWS

Single-head Arrow



5212

Double-head Arrow



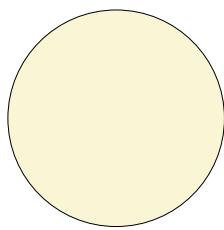
5213

Size: 2" x 6.625" [50mm x 165.62mm]

Size: 2" x 9" [50mm x 225mm]

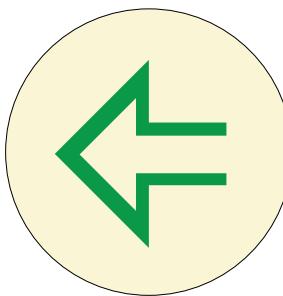
## DOOR OUTLINE, HANDRAIL AND BANISTER MARKERS

Plain Circle Dot



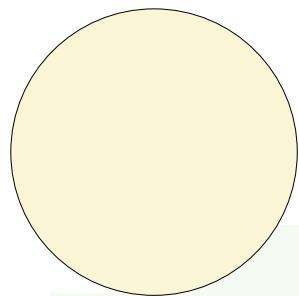
5214

Circle With Screened Arrow



5215

Plain Circle

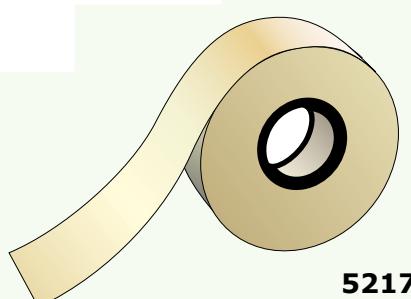


5216

Size: 2.375" dia [59.375mm]

Size: 3.75" dia [93.75mm]

## FLEXIBLE PVC SELF ADHESIVE MARKER TAPE CAN BE CUT TO SIZE



5217

Size: 2" x 25' [50mm x 7500mm]

# ADA COMPLIANT SIGNS

[COMPLY WITH "AMERICANS WITH DISABILITIES ACT"]

pg16

## INCLUDES RAISED AND BRAILLE CHARACTERS AND PICTOGRAMS

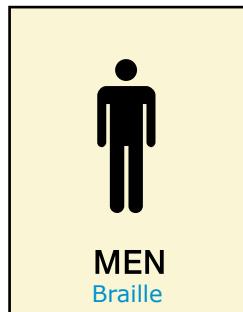
Accessible



5301

### RESTROOM SIGNS

Men



5302

Women



5303

Restroom (Men,Women)



5304

Men -Accessible



5305

Women -Accessible



5306

Restroom (Men,Women)  
-Accessible



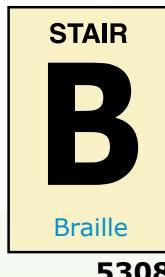
5307

Size: 6"X8" [150mmx200mm]

### CUSTOM ADA SIGNS

Stair ID

Floor #

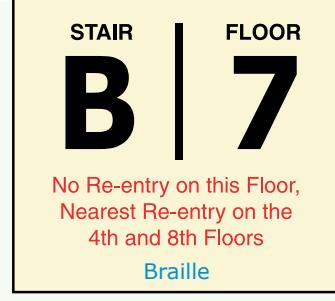


5308



5309

Stair ID -Floor#  
No Re-entry on this floor



5310

Stair ID -Floor#  
Re-entry on this floor



5311

Size: 6"X4" [150mmx100mm]

Size: 9"x10"  
[225mmx250mm]

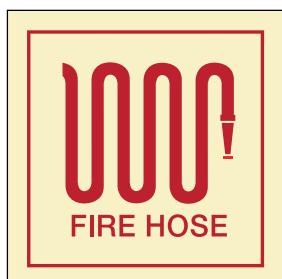
Size: 7"x10" [175mmx250mm]



## FIRE EXTINGUISHER & STANDPIPE SIGNS

pg17

Fire Hose



5401

Fire Extinguisher  
Dry Chemical



5402

Fire Extinguisher  
Carbon Dioxide



5403

Size: 6"X6" [150mmx150mm]

## NFPA 170 STANDARDIZED FIRE SAFETY SYMBOLS

SIZE: A=4"X4" [100mmx100mm] B=8"X8" [200mmx200mm]

Run Up Left



5601 A/B

Run Up Right



5602 A/B

Run Down Left



5603 A/B

Run Down Right



5604 A/B

# NFPA 170 STANDARDIZED FIRE SAFETY SYMBOLS

pg18

SIZE: A=4"X4" [100mmx100mm] B=8"X8" [200mmx200mm]

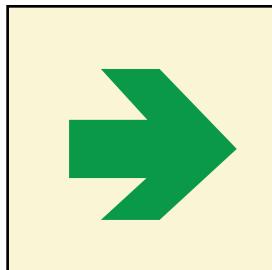
EXIT Left



EXIT Right



Emergency EXIT Route



Not an EXIT



Area of Refuge



5610 A/B

No Smoking



5611 A/B

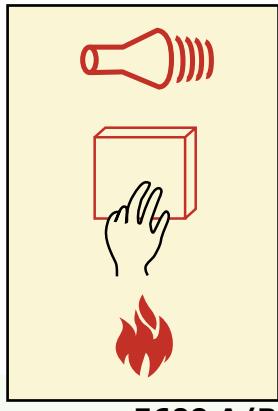
No Cooking



5612 A/B

SIZE: A=4"X8" [100mmx200mm] B=8"X16" [200mmx400mm]

Manually Activated Alarm Initiating Device



5609 A/B

Do Not Use Elevator In Case of Fire

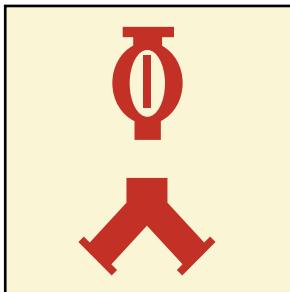


5613 A/B

## ELECTRICAL, FIRE AND SPRINKLER WARNING SYMBOLS

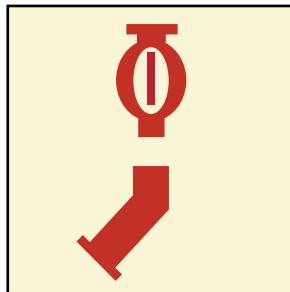
SIZE: A=4"X4" [100mmx100mm] B=8"X8" [200mmx200mm]

Fire Dept. Automatic Sprinkler Connection -Siamese



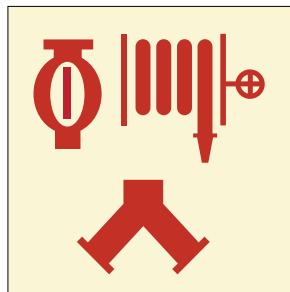
5614 A/B

Fire Dept. Automatic Sprinkler Connection -Single



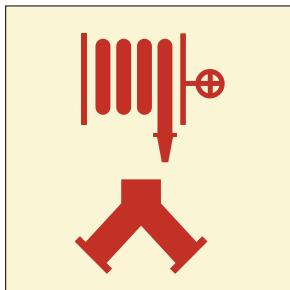
5615 A/B

Fire Dept. Automatic Sprinkler / Standpipe Connection



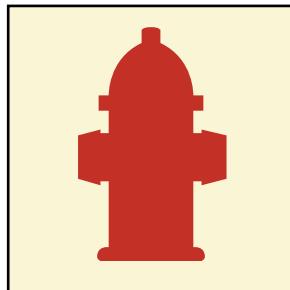
5616 A/B

Fire Dept. Standpipe Connection



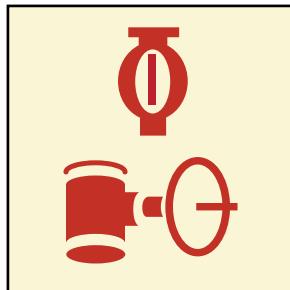
5617 A/B

Fire Hydrant



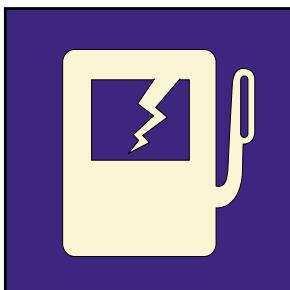
5618 A/B

Automatic Sprinkler Control Valve



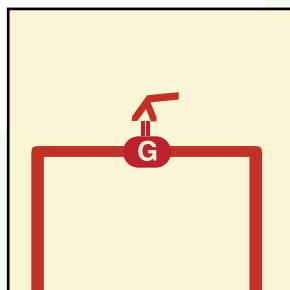
5619 A/B

Electric Panel or Electric Shutoff



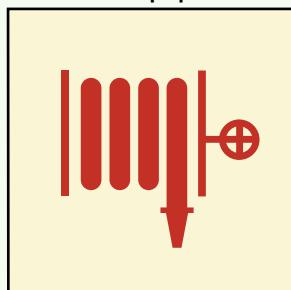
5620 A/B

Gas Shutoff Valve



5621 A/B

Fire-fighting Hose or Standpipe Outlet



5622 A/B

# MAN RUNNING AND WALKING SIGNS

pg20

## EXITS, DOORS, ARROWS AND STAIRS

### MAN RUNNING TO EXIT

Running Left



5623

Running Right



5624

### MAN RUNNING TO DOOR

Running Left



5625

Running Right



5626

Size: 4"X8" [100mmx200mm]

Size: 4"X8" [100mmx200mm]

### MAN RUNNING TO STAIRS

Running Left



5627

Running Right



5628

Size: 4"X8" [100mmx200mm]

### MAN RUNNING WITH ARROW

Running Left



5629

Running Right



5630

Size: 4"X6" [100mmx150mm]

### MAN RUNNING DOWN STAIRS

Running Left



5631

Running Right



5632



5633

### MAN WALKING DOWN STAIRS

Walking Left



5634

Walking Right



5635

Size: 8"X6" [200mmx150mm]

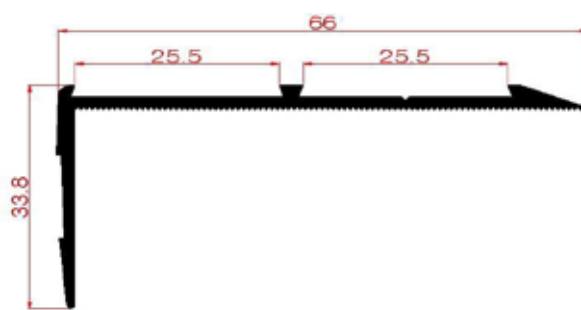
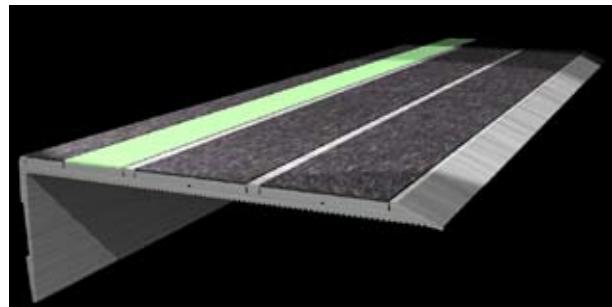
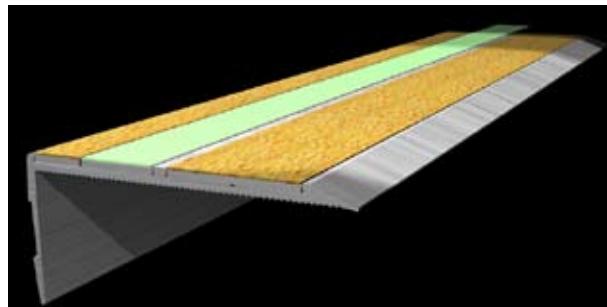
Size: 6"X6" [150mmx150mm]

# ARCHITECTURAL STAIR NOSINGS WITH PHOTOLUMINESCENT INSERTS

pg21

Architectural Stair Nosings offer you an all in one, designer solution for eliminating slip problems on stair treads while incorporating high performance way-guidance in your stair wells in the event power is lost and back-up systems fail.

- ✓ Integrates reliable, high traction non-slip surfacing with edge defining photoluminescent inserts.
- ✓ Super high performance glow capability to complement existing life-safety systems.
- ✓ Exceeds all anti-slip performance standards for stairs.
- ✓ Practical, easy to install, universal fitting profiles for both new and retrofit applications.



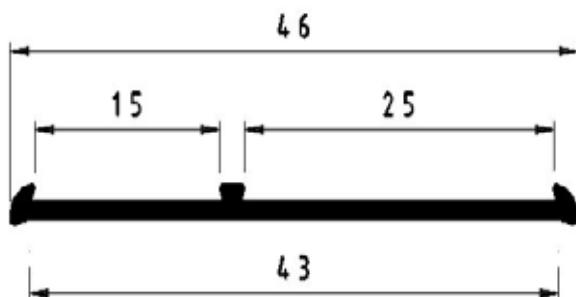
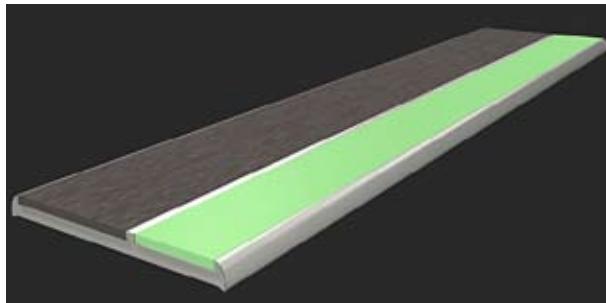
**ALN2**



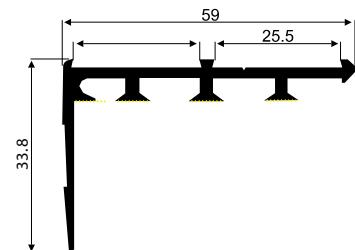
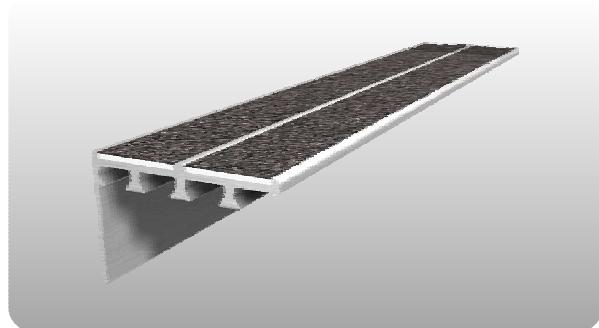
**ALN3**

# ARCHITECTURAL STAIR NOSINGS WITH PHOTOLUMINESCENT INSERTS

pg22



Visi-strip



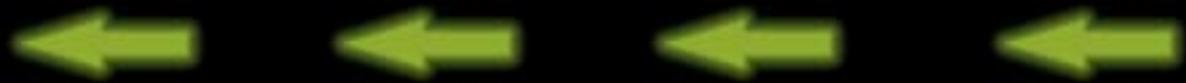
ALNCP

**Safety Step** combines a functional GLOWSTRIP™ and effective GRIPSTRIP™ in one elegant, highly durable, and practical stair nosing product to provide you with the ability to navigate stairs with confidence – during routine or emergency situations. GRIPSTRIP™ offers anti-slip benefits at all times – while the spatial guidance provided by the luminous GLOWSTRIP™ is essential to ensure a safe, rapid evacuation when power is lost or smoke fills the stair wells.

- ✓ GLOWSTRIP™ is a super high performance, self charging photoluminescent material set into a fine aluminum extrusion. In darkness or in times of emergency each stair nosing will glow brightly and clearly define the path to safety. No electrical connection required. 100% reliable performance. Hours of reliable luminance. One or more GLOWSTRIP™ inserts may be specified in any location within the stair nosing.
- ✓ GRIPSTRIP™ is a highly non-slip, extremely durable anti-slip insert that provides excellent traction even when fully wet. This innovative product is comprised of a seamlessly bonded PVC material with a flexible base and a permanent color coat sandwiched under a rock hard anti-slip textured surface. Available colors are black, grey and yellow.

**Location:**  
**54450 Royal Troon Drive**

**South Lyon, MI 48178-9415**



# **SAFETY STEP EGRESS**



**Contact:**  
**Rondal Harper**

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**rondal@safetystepegress.com**  
**www.safetystepegress.com**

*[dealer inquiries welcome]*