

## BRING YOUR IMAGINATION TO LIGHT™

THEATER LIGHTING SYSTEMS



### ■ Rapid Installation

Customers are reporting over a 50% reduction in installation time and costs. StepGuard® arrives ready to install. All you need is a drill and a screw driver. Power can be remotely located, and one transformer can illuminate an entire theater.

### ■ Unmatched Durability

Our end caps don't fall off and our light system never fails. StepGuard® is a completely integrated aluminum extrusion line that is assembled mechanically with screws and not hot glue. It does not come apart, and virtually no maintenance is needed after installation.

### ■ Dimmable and DMX Compatible

Dim to zero without any flicker. Completely seamless integration into any control system. Unlike LEDs, Light Tape® can run for 40,000 hours and never get hot.

### ■ Top Quality

Light Tape is built with pride in the USA utilizing the best materials and manufactured to last. StepGuard® extrusions and accessories make a great product even better.

### ■ Green System with Light Tape® Inside

Utilizing the most energy efficient lighting system available, Light Tape® can cut energy cost by 70%.

### ■ No On-Screen Glare, Even Illumination

StepGuard® utilizes Light Tape® to create the luminaire. No hot or cold spots at any size, a completely uniform light source without the need for diffusion. Light Tape® is extremely visible like a laser, yet does not cast light on your screen like a common LED.



## Introducing StepGuard™ Theater Illumination Solutions

Our StepGuard™ Profile Systems were methodically developed for Light Tape® after years of field testing. The only solution in the world where the manufacturer not only makes the profile but also the light, resulting in a complete illumination solution that is not only elegant, but a tremendous value. Ideal for cinemas, auditoriums or any venue where safety is paramount.

Light Tape® has nearly two decades of performance in the aerospace and automotive industry, and is well known for reliability and durability in the toughest applications and environments. StepGuard™ sets the standard for theater illumination.



### Electro-LuminX™ Lighting Corporation

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Richmond, Virginia 23230 USA  
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[thelighttapeteam@lighttape.com](mailto:thelighttapeteam@lighttape.com)





THEATER LIGHTING SYSTEMS  
**PRODUCT GUIDE**



designed for  
**LightTape**

## Introducing StepGuard™ The Egress Lighting Solution.

The StepGuard™ System was methodically developed for Light Tape® after years of field testing. The only solution in the world where the manufacturer not only makes the profile but also the light, resulting in a complete lighting solution that is not only elegant, but a tremendous value. Ideal for cinemas, auditoriums or any venue where safety is paramount.

Light Tape® has over a decade of performance in the aerospace and automotive industry, known for reliability and durability in the toughest applications and environments. StepGuard™ sets a new standard for egress lighting.



## More than just an Egress System

- ✓ System Design & Maintenance
- ✓ Installation guidelines to help your contractors
- ✓ Training & Support
- ✓ Delivery to every corner of the world



## STAIR NOSE LIGHTING



## StepGuard™ Stair Nose Lighting

### Features

- StepGuard™ is exclusively made for Light Tape®
- Light Tape® Electroluminescent lamps
- Smart Driver™ dimmable & DMX compatible power source
- Anodized or Electrostatic painted aluminum for heavy duty use.
- EPDM rubber anti-slip for maximum comfort and safety.
- Two type of end caps, depending on wiring requirements. End caps are secured to profile with screws, assuring they won't come off with use or traffic.

### Warranty

5 Year Limited Warranty on profile and accessories for indoor use.

## Technical Information

### Profile

- Aluminum profile available up to 3 meter lengths.
- Pre-cut and assembled according to specification.

### Light Source

- Light Tape® EL tapes. Select from over 12 colors to match your brand's image.
- Illuminated width 0.25" (0.635mm)
- Length reference: 1 linear meter
- Illumination source: 100% Phosphors
- Current / amps: 0.0025
- Total Watts: 0.25
- Illumination coverage: 100% even

### Design Options:

Select from three lines with options to align with your specifications:

#### Direct:

Intended for direct view illumination on wood, concrete, vinyl, or low pile carpeted steps. Includes our StepGuard™ 45, StepGuard™ 45 Duo/Duo HB, StepGuard™ 30, StepGuard™ Classic, and StepGuard™ Classic Duo/Duo HB configurations. With Light Tape®, you get illumination without pollution. No need to hide the light source from the screen or patrons.

#### Immersion:

Intended for downward facing illumination for a truly immersive experience on wood, concrete, vinyl or low pile carpeted steps. Includes our StepGuard™ 45 Immersion and StepGuard™ Classic Immersion configurations. All available in standard or high bright options.

#### Retro:

Intended for use with high pile carpet, profile has notched feet and a longer nosing for anchoring on old step edges. Includes our StepGuard™ Retro 45, StepGuard™ Retro 45 Duo, and StepGuard™ Retro Immersion configurations.

**StepGuard™ is exclusively made for Light Tape®**



## Aluminum Profile Color Options

Anodized Silver and Electrostatic Black paint are our standard line colors. Other below colors available upon request. Pricing may vary based on color option and minimum quantities may also apply when ordering.



Anodized Silver

Black Semi Matte

Champagne

Brown

White

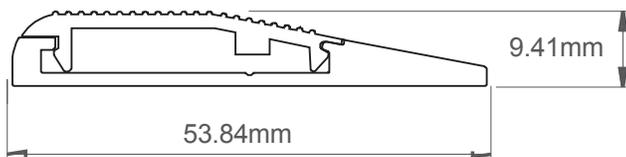
Wood Finish

## Mounting & Wiring Accesories for StepGuard™ 45

### Wireways

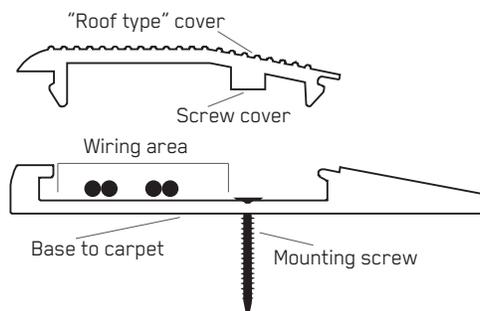
Base and covers are made from high resistant black PVC, especially designed to fit our end caps, join and run the wiring between steps. Available in 2 or 3 meter lengths.

#### Main Wireway channel



- "Roof type" cover design to prevent liquid entrance.
- Top on mounting screw area to avoid short circuit by contact or mix with wires.
- Designed to perfectly fit our ebonite rubber end cap.

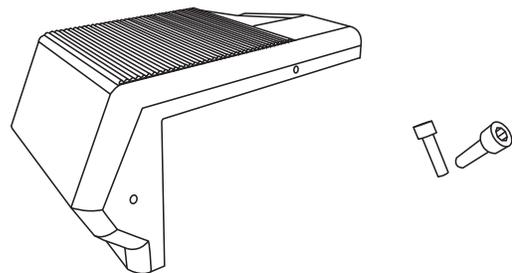
#### Mounting and wiring



### End caps

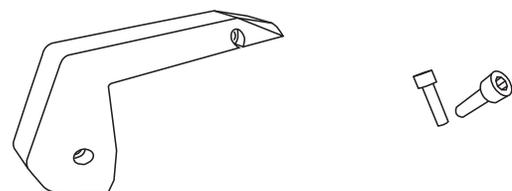
Two options of end caps available, depending on the wiring system required or available. Both end caps are joined to aluminum profile with hexagonal socket screws (x2) for maximum security. No more loose or missing end caps.

#### Ebonite rubber end cap with mounting screws



End cap for surface wiring with wireway channels. Made in vulcanized black ebonite.

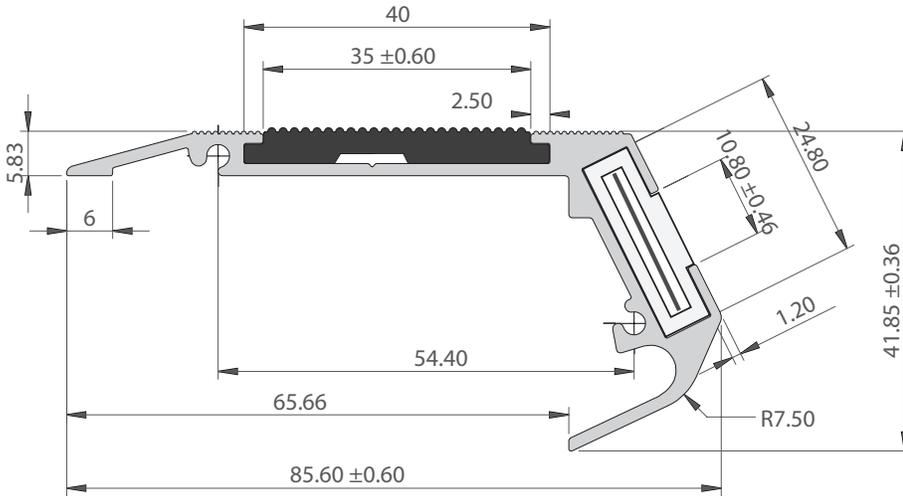
#### PVC end cap with mounting screws



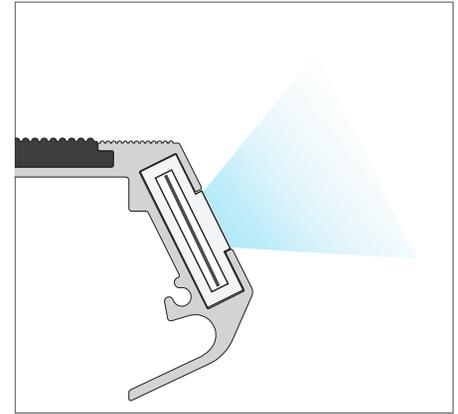
End cap for underground wiring with individual junction boxes. Made in high resistance black PVC.

## General dimensions and configurations

\* All measurements in mm



### StepGuard™ 45

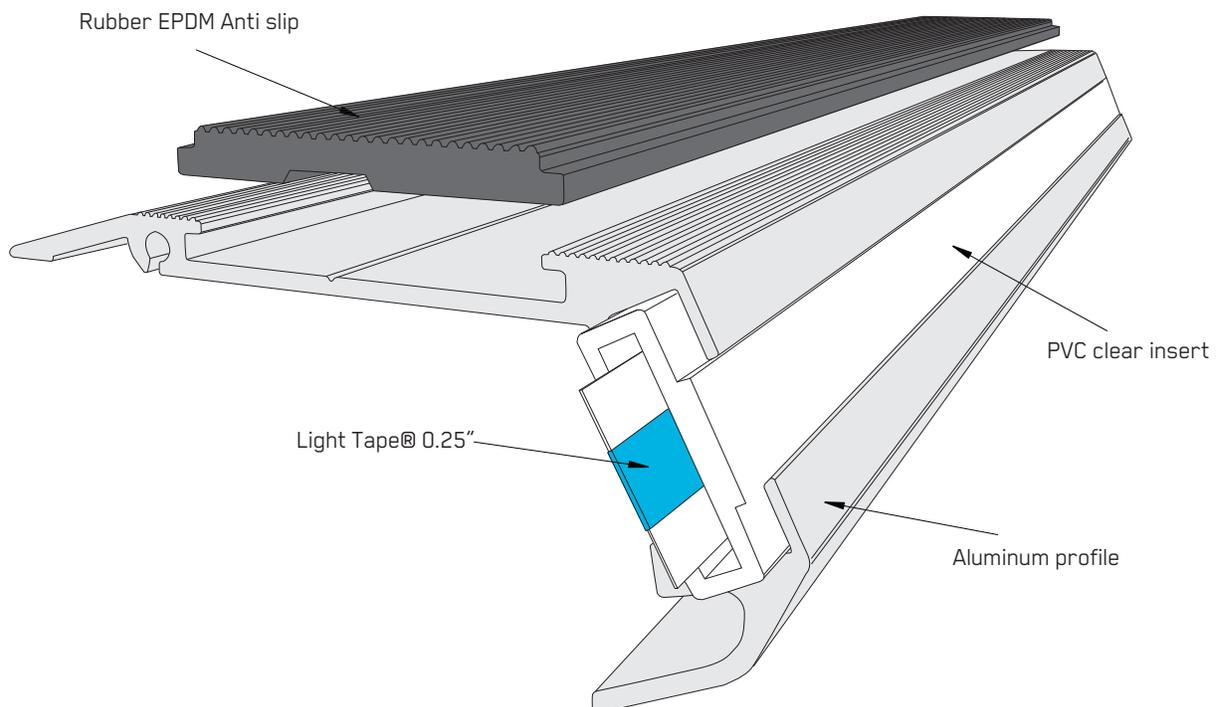


Aluminum extrusion available up to 4 meters in length. Pre-cut and assembled according to specification.

For use only with 0.25" Light Tape® on a 45 degree angle on front.

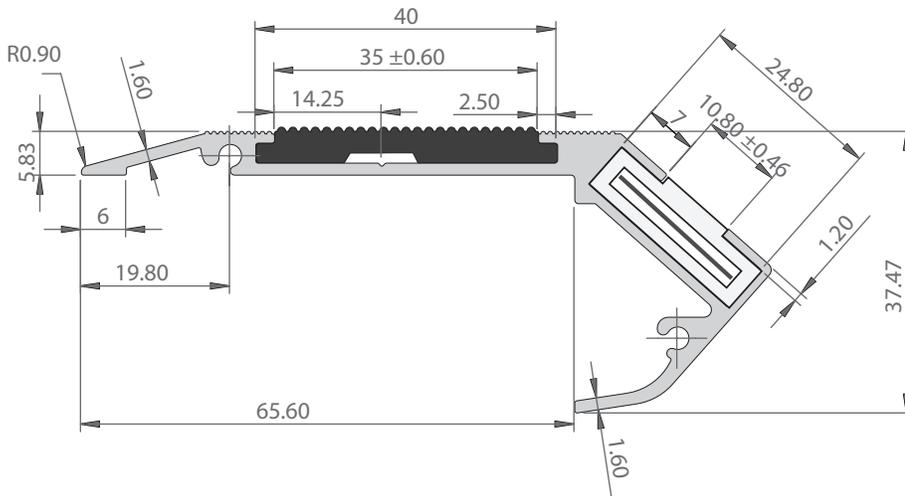


Available Colors

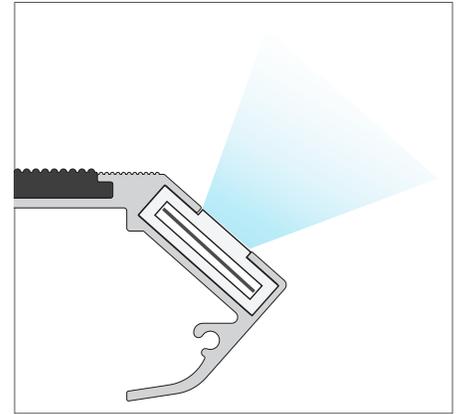


## General dimensions and configurations

\* All measurements in mm



### StepGuard™ 30



Aluminum extrusion available up to 4 meters in length. Pre-cut and assembled according to specification.

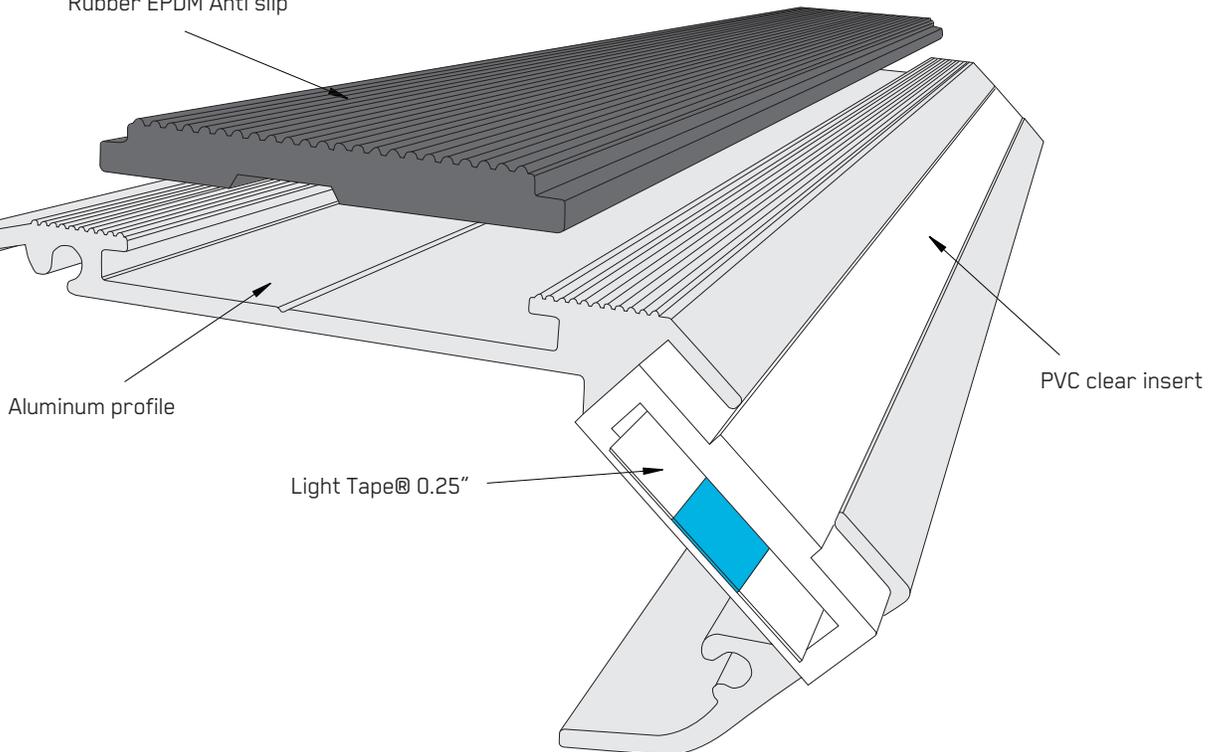
For use only with 0.25" Light Tape® on a 30 degree angle on front.



Available Colors



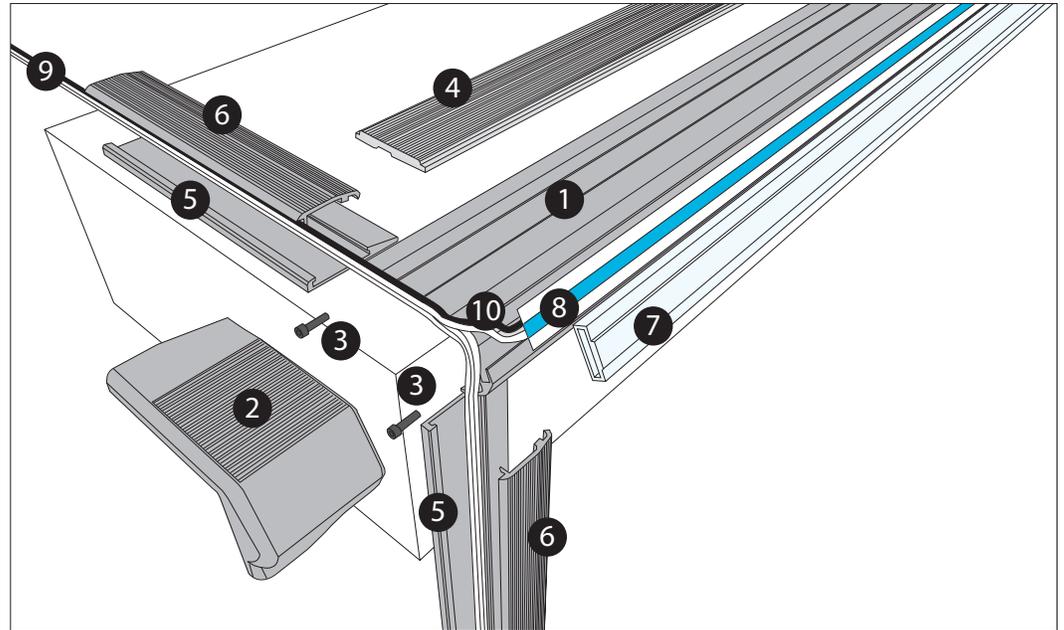
Rubber EPDM Anti slip



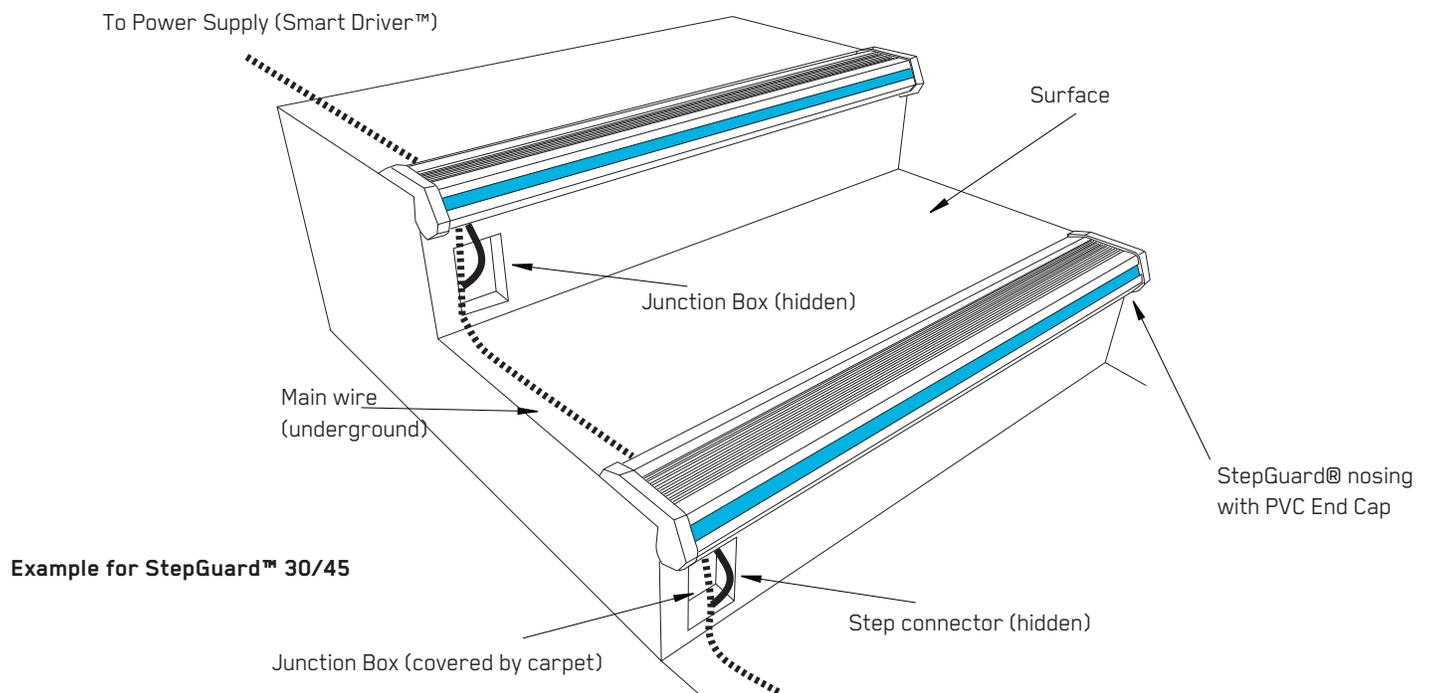
## System Configuration for surface wiring (StepGuard™ 30/45)

### Part description

- 1 Aluminum profile
- 2 Ebonite End Cap
- 3 Mounting screws
- 4 EPDM Rubber Anti-slip
- 5 Wireway base
- 6 Wireway cover
- 7 PVC Insert
- 8 Light Tape®
- 9 Main wire
- 10 Connector

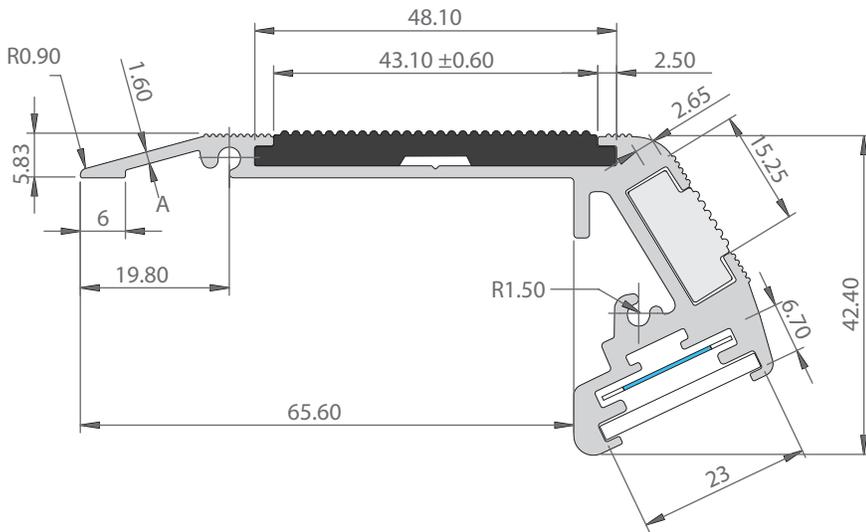


### Wiring installation with individual junction boxes

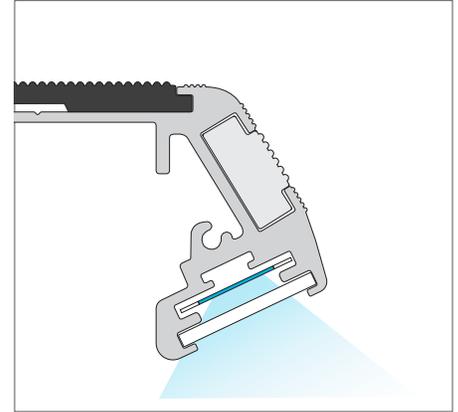


## General dimensions and configurations

\* All measurements in mm



## StepGuard™ Immersion

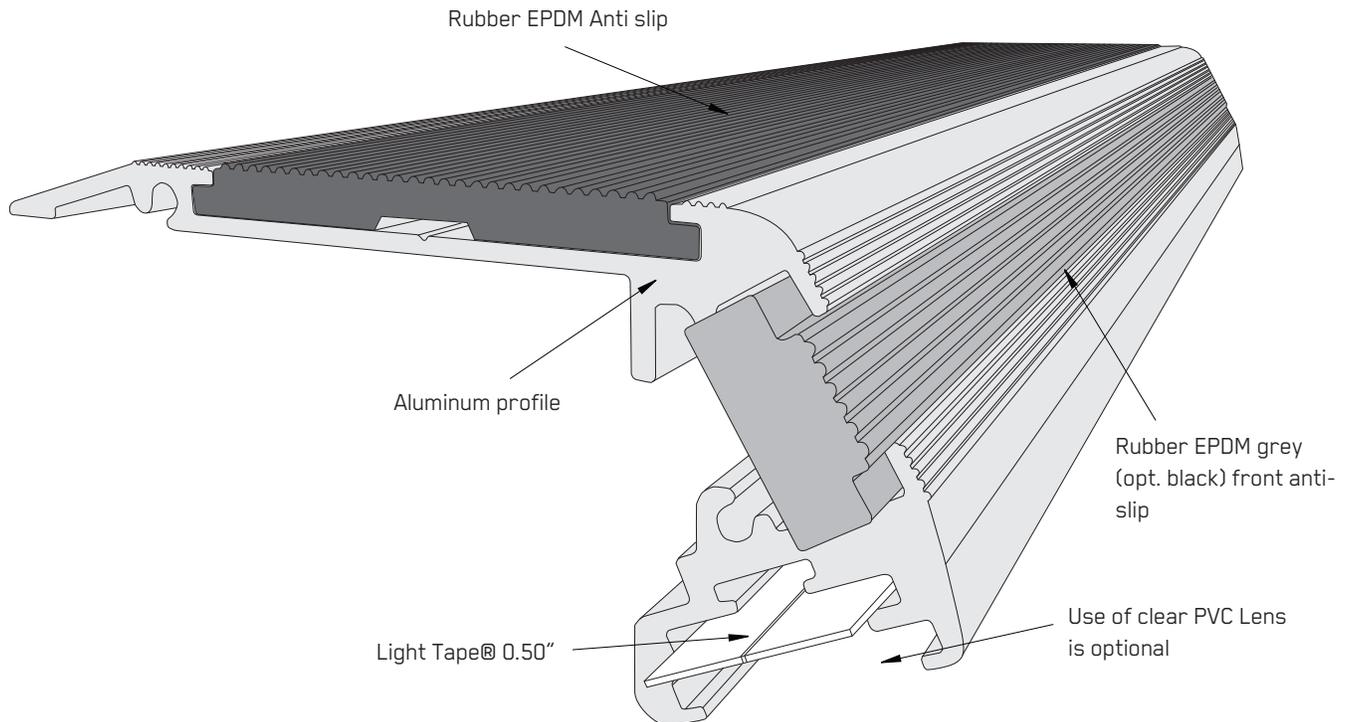


Aluminum extrusion available up to 4 meters in length. Pre-cut and assembled according to specification.

For use with 0.25" / 0.50" Light Tape® on bottom for tread illumination.

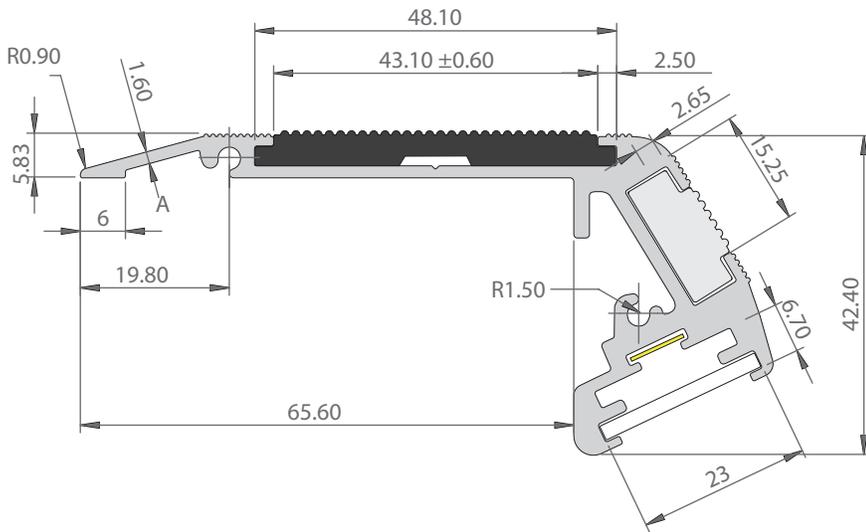


Available Colors

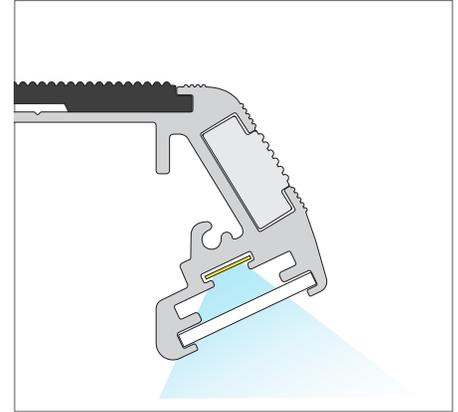


## General dimensions and configurations

\* All measurements in mm



## StepGuard™ Immersion HB

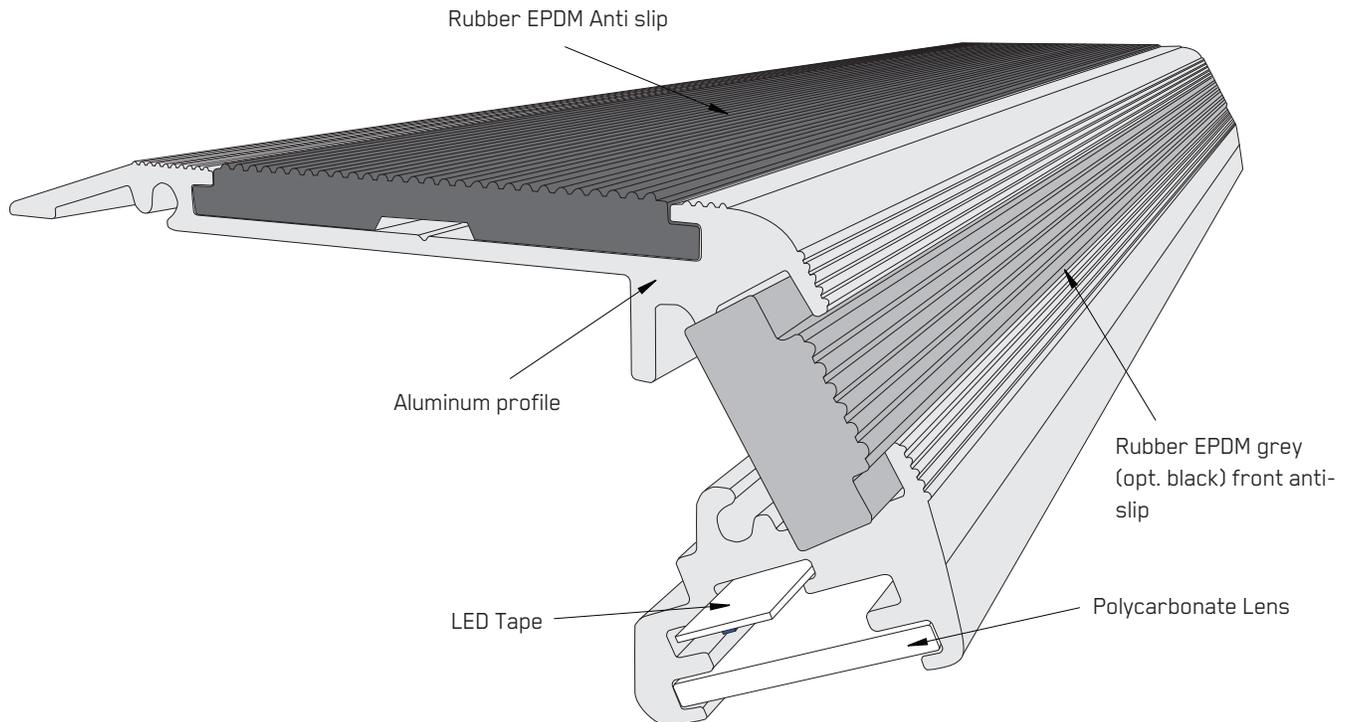


Aluminum extrusion available up to 4 meters in length. Pre-cut and assembled according to specification.

For use with LED tape on bottom for tread illumination.

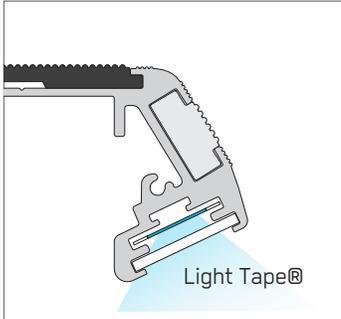


Available Colors

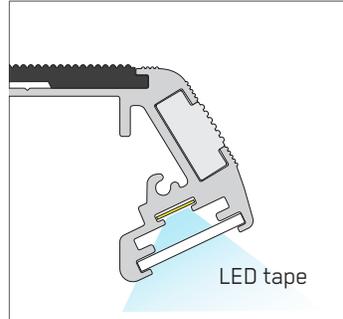


## Wide range of configurations

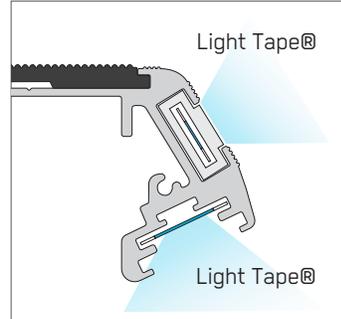
StepGuard™ Immersion



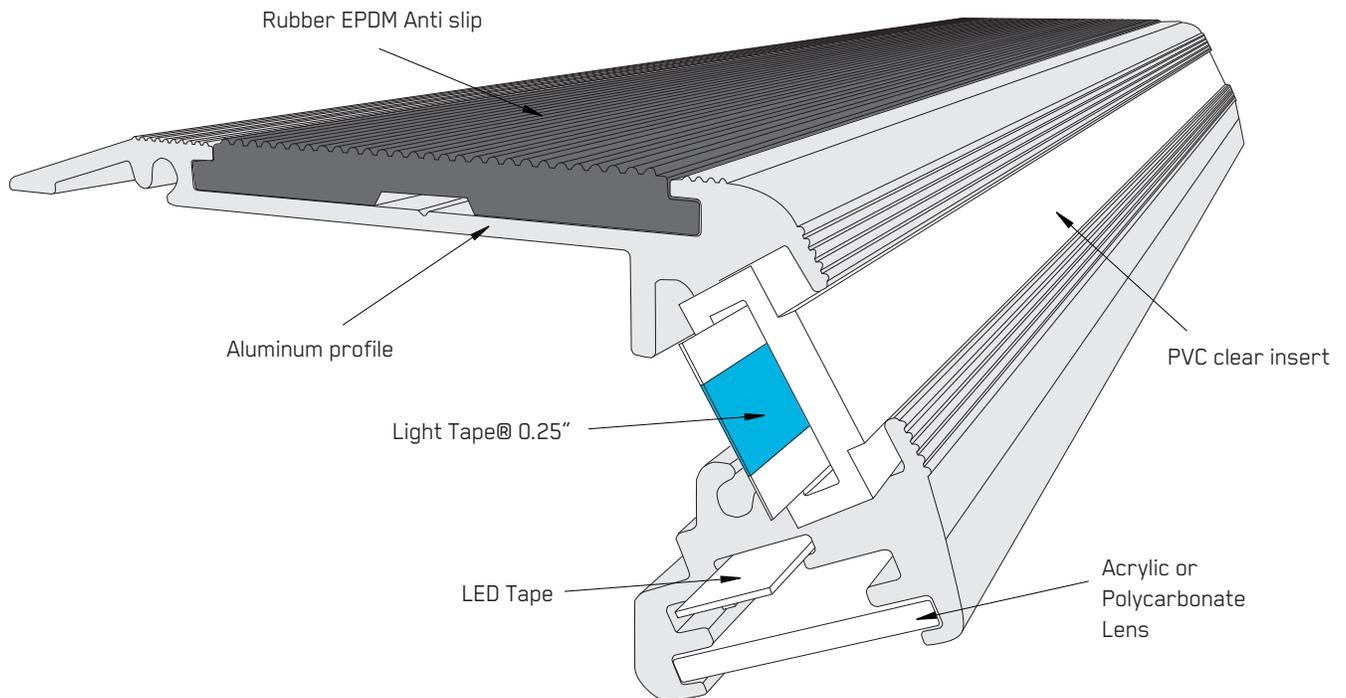
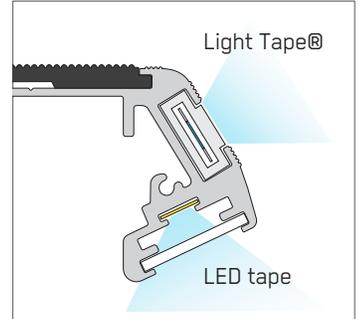
StepGuard™ Immersion HB



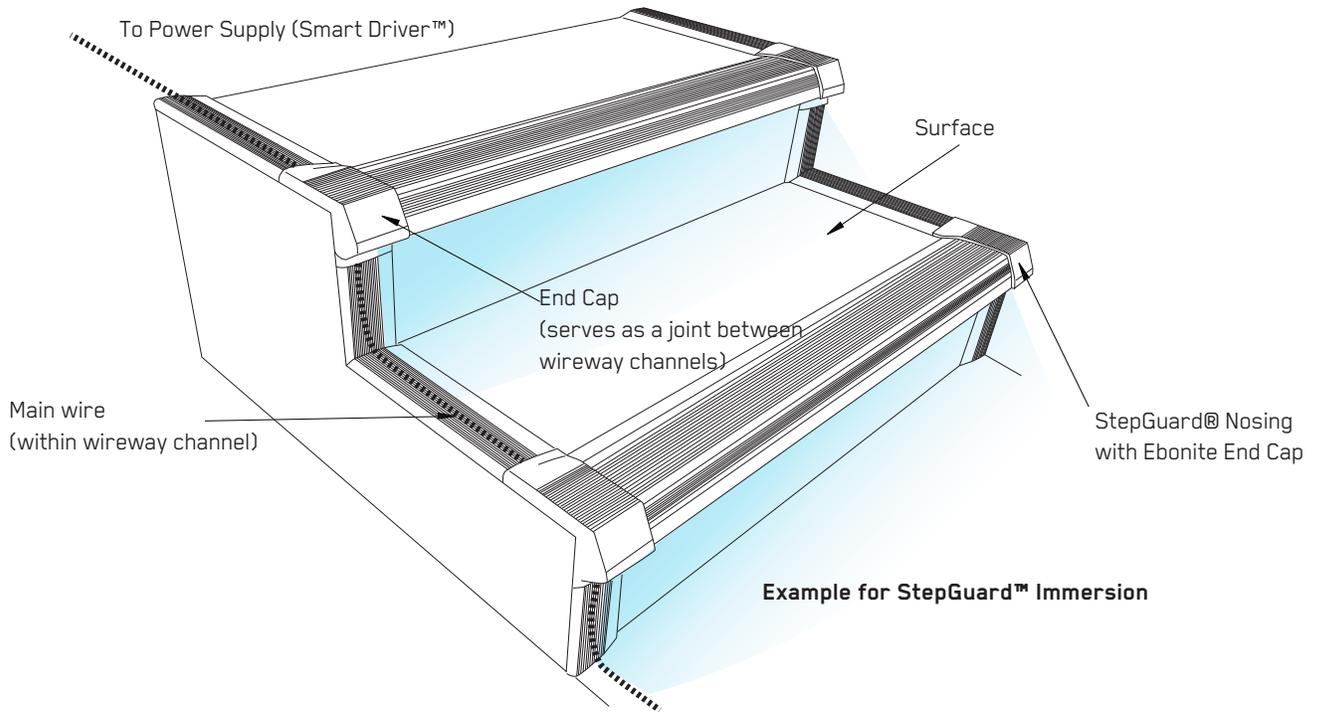
StepGuard™ 45 DUO



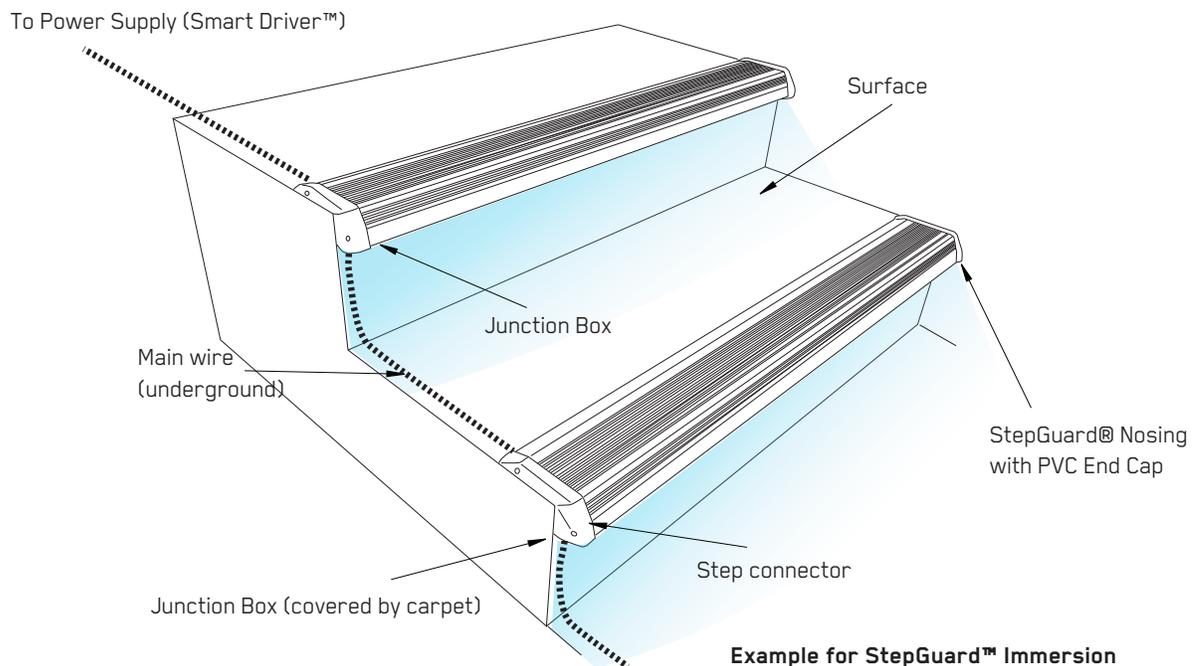
StepGuard™ 45 DUO HB



## System Configuration for surface wiring

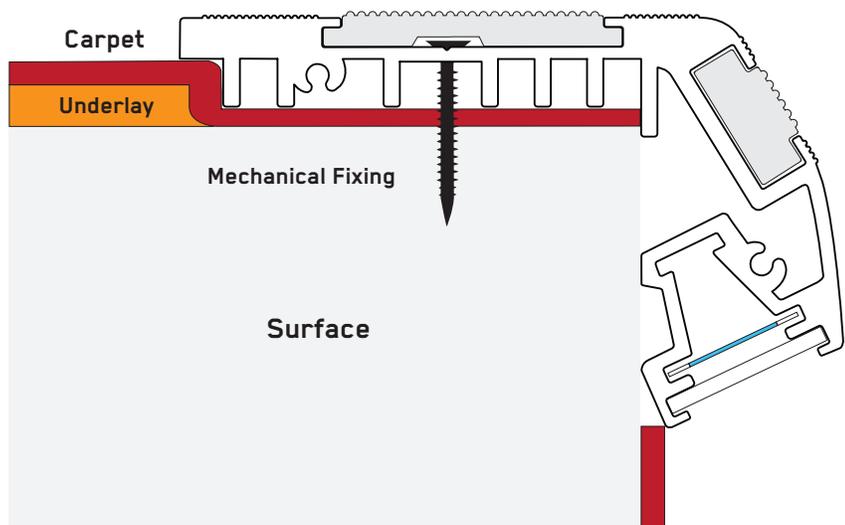
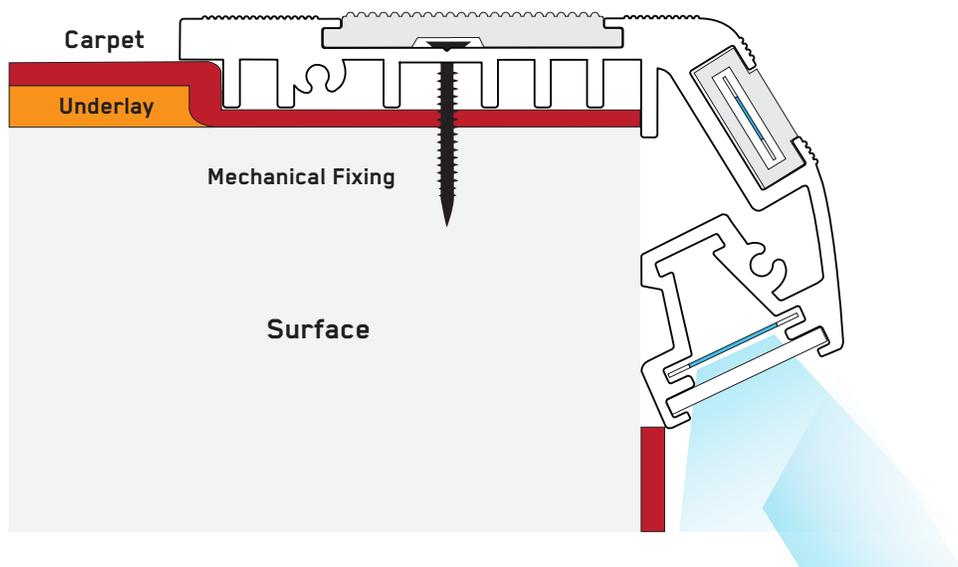


## System configuration for pre-installed underground wiring



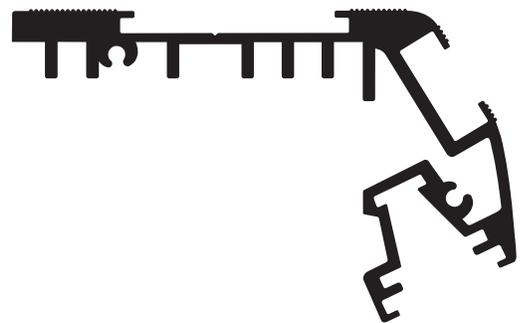
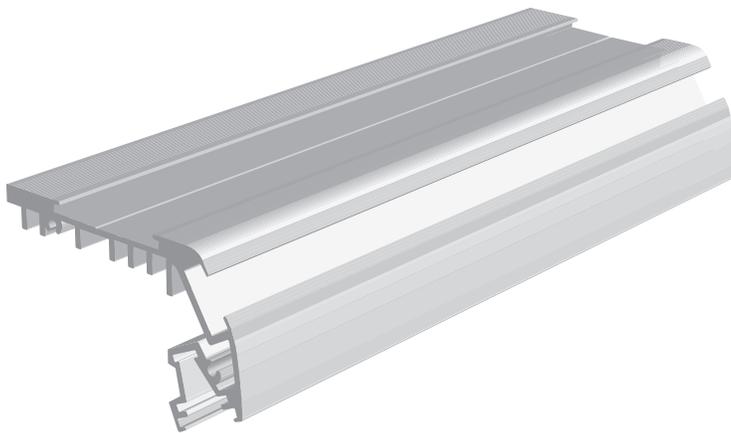
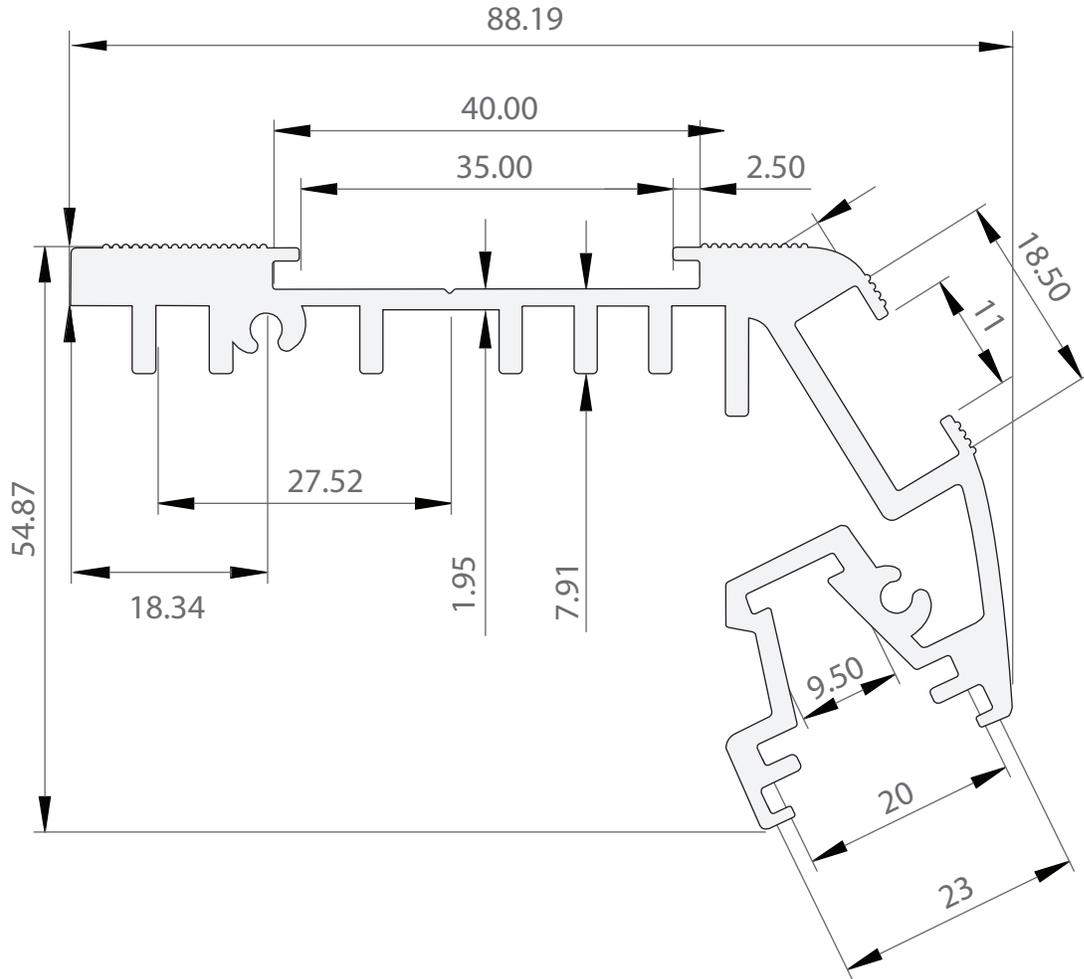
# StepGuard™ Retro

\* All measurements in mm



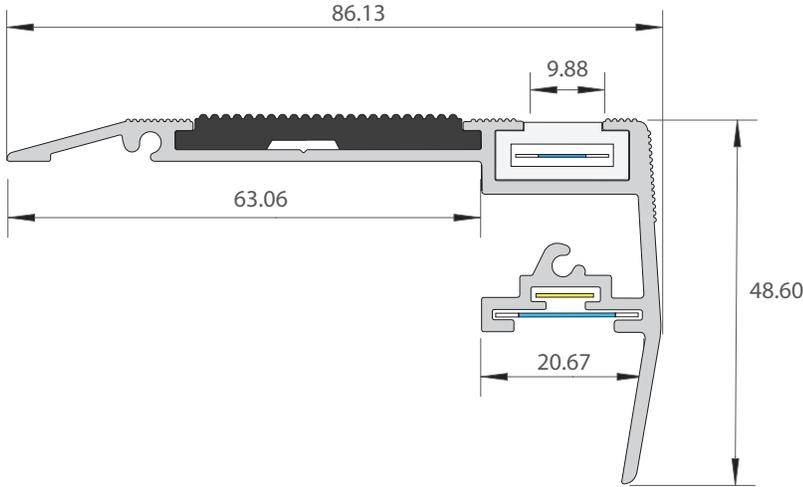
## Retro general dimensions and configurations

\* All measurements in mm

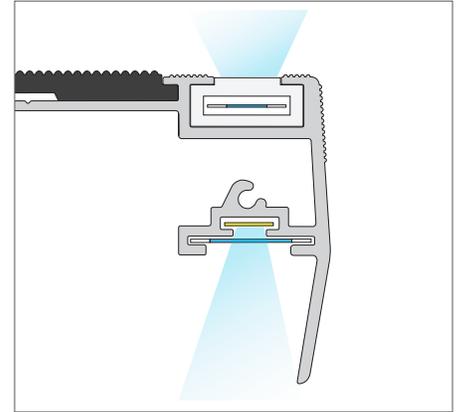


## General dimensions and configurations

\* All measurements in mm



### StepGuard™ Classic

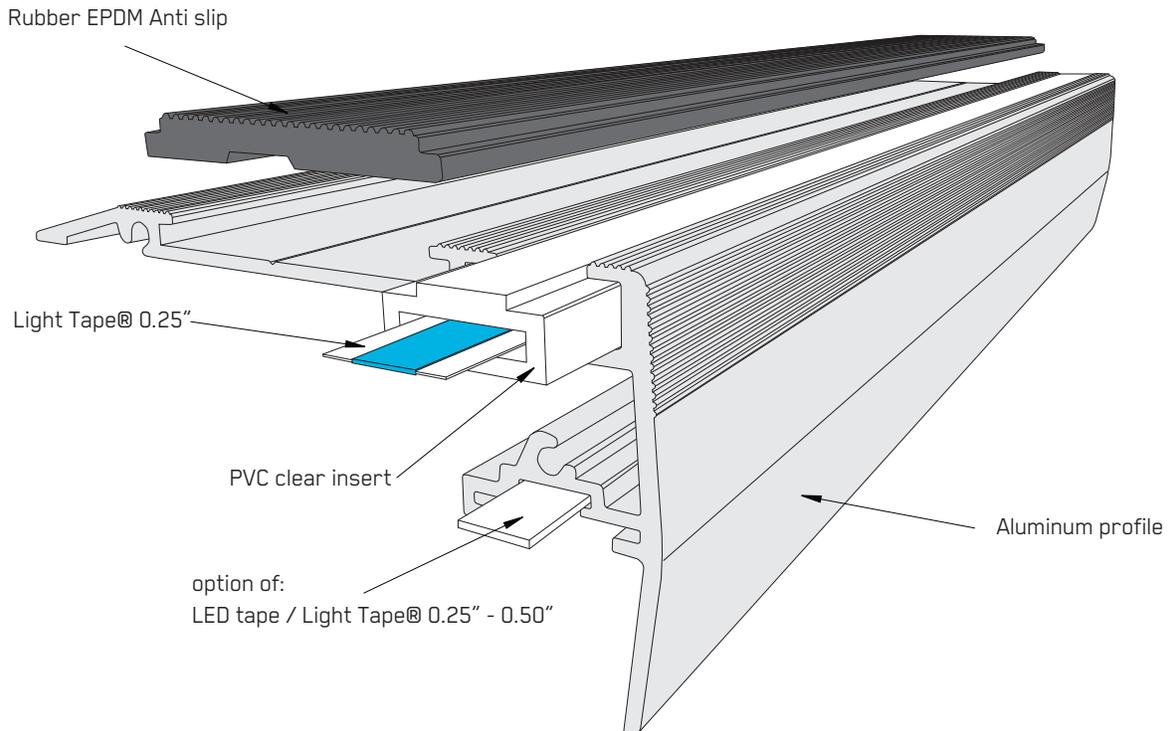


Aluminum extrusion available up to 4 meters in length. Pre-cut and assembled according to specification.

For use with 0.25" Light Tape® on top or combined with LED tape on bottom for tread illumination. Space on bottom fits 0.25" or 0.5" Light Tape®.



Available Colors



## Labels and Markings

### 1. Security label (Printed on Tamper evident paper revealing if removed)

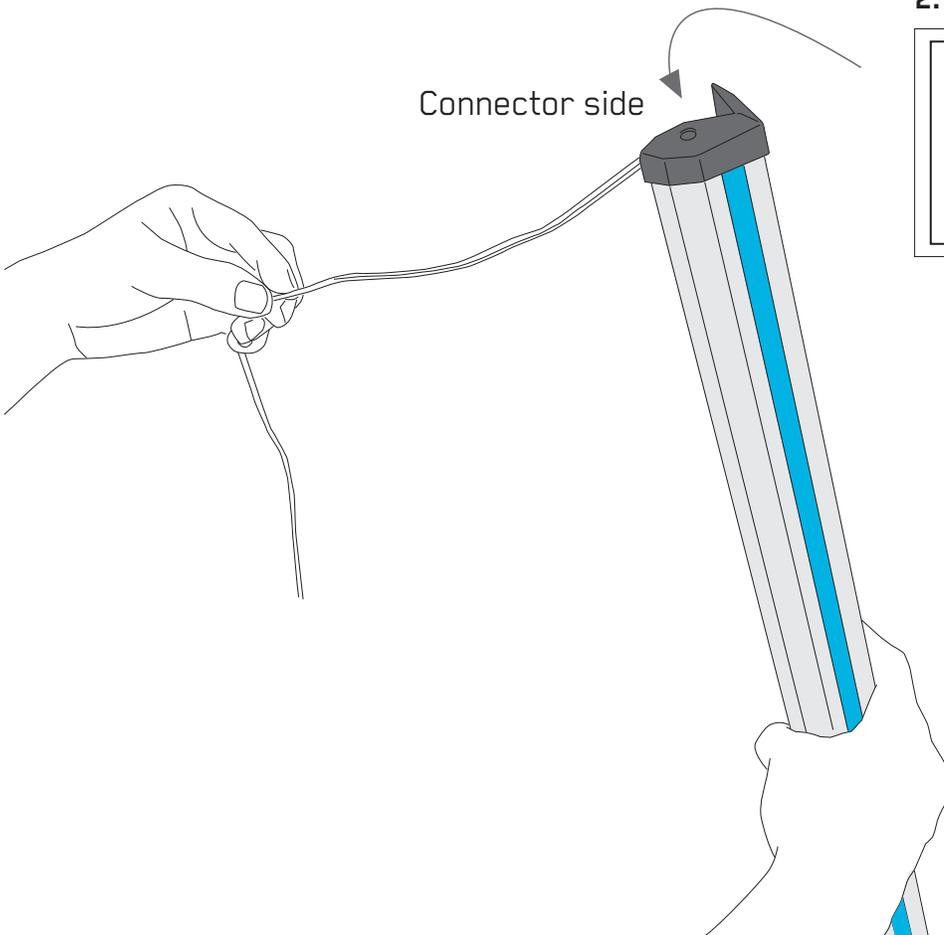
			<b>Model / Modelo: StepGuard™ 45</b>	
			<b>Total Watts/Potencia Varios:</b> 0.1 to 0.27 per linear meter	<b>Static strength/Carga nominal:</b> 5,000 Newtons/Min.
			<b>Voltage range/Tension Voltios:</b> 200 to 320 volts AC	<b>Maximum operating Temperature/ Temperatura Ambiente Maxima:</b> 120 Degrees F / 49 degrees C (Range dependent on high or low on dimmer setting)
			<b>Current/Corriente:</b> 5 milliamp per linear meter	<b>Hertz: 750hz</b>
Electro-LuminX Lighting Corp.   <a href="http://www.lighttape.com">www.lighttape.com</a> Assembled at Zofrandina-El Progreso Free Zone. Km. 55 Via Bogotá-Tunja, Colombia - South America				

### 2. Project Identification label

		
<b>Name of Project</b>		
<b>AUD No.</b>	<b>SIZE mm</b>	<b>COLOR</b>

### 3. Intenational Bar Code

<b>STEPGUARD 45</b>  <b>7 709199 417486</b>
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## Wayfinding



## Light Guide™ Aisle and Ramp Lighting

### Features

- StepGuard® is exclusively made for Light Tape®
- Light Tape® Electroluminescent lamp
- Smart Driver™ dimmable & DMX power source
- High Resistance extruded PVC Channel, for heavy duty use.
- “Flat hose” type clear PVC insert, to further encapsulate the Light Tape®
- Ebonite End Cap to close segments. They also allow cable to continue to other segments if required.
- 90 degree angle cap for corner configurations

### Warranty

**3 Year Limited Warranty on channel and accessories for indoor use.**

### Technical Information

#### PVC Channel

- PVC or Aluminum channel available up to 3 meter length.
- Pre-cut and assembled according to specification.

#### Light Source

- Light Tape® EL tapes. Over 12 colors to choose from.
- Illuminated width 0.25" (0.635mm)
- Area/Length reference: 1 linear meter
- Illumination source: 100% Phosphors
- Current / amps: 0.0025
- Total Watts: 0.25
- Illumination coverage: 100% even

#### Design Options

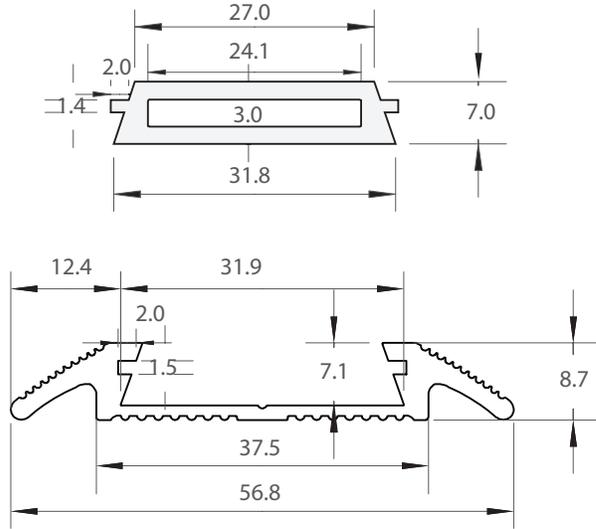
- **StepGuard™ Aisle**
- **StepGuard™ Ambiance**
- **StepGuard™ WallGuard**
- **StepGuard™ Light Rails**



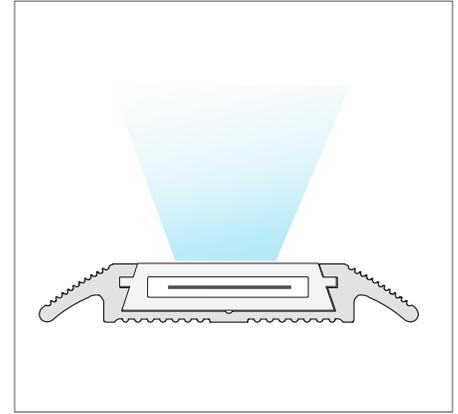
**StepGuard™ is exclusively made for Light Tape®**

## General dimensions and configurations

\* All measurements in mm



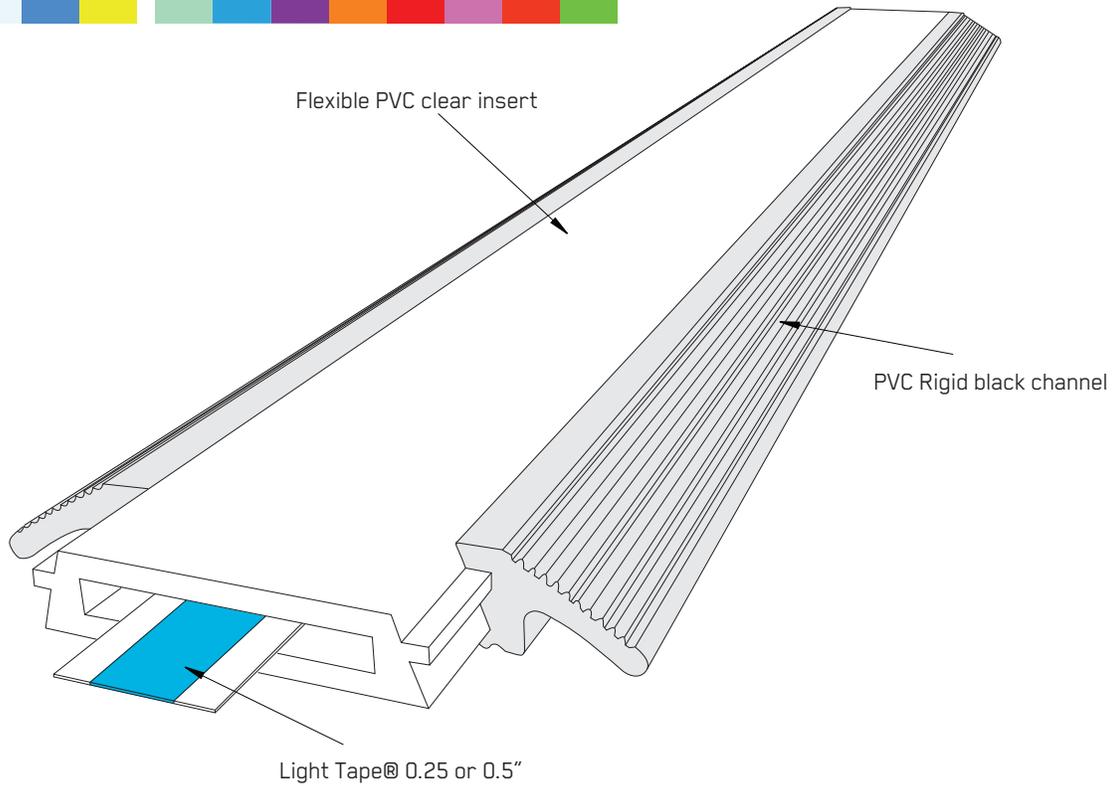
### StepGuard™ Aisle



PVC channel available up to 3 meters in length. Single sealed runs up to 20 meters available.



Available Colors



## Single runs up to 25 meters long

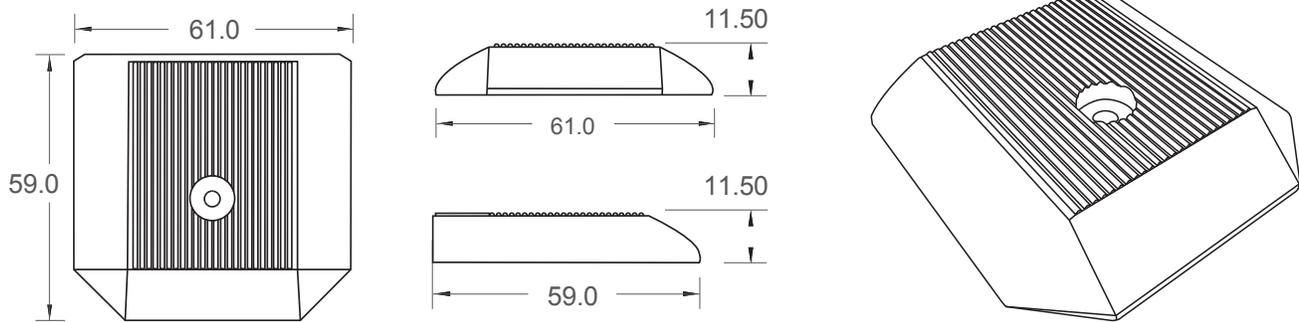
Light Tape® is available in long continuous runs, longer than 25 meters. However, the sealed PVC insert comes in 25 meters rolls. That would be the upper limit on the maximum length of a single run for a sealed system. For longer runs or other configurations, please refer to wiring instruction diagram.



## Mounting & Wiring Accesories

### End cap

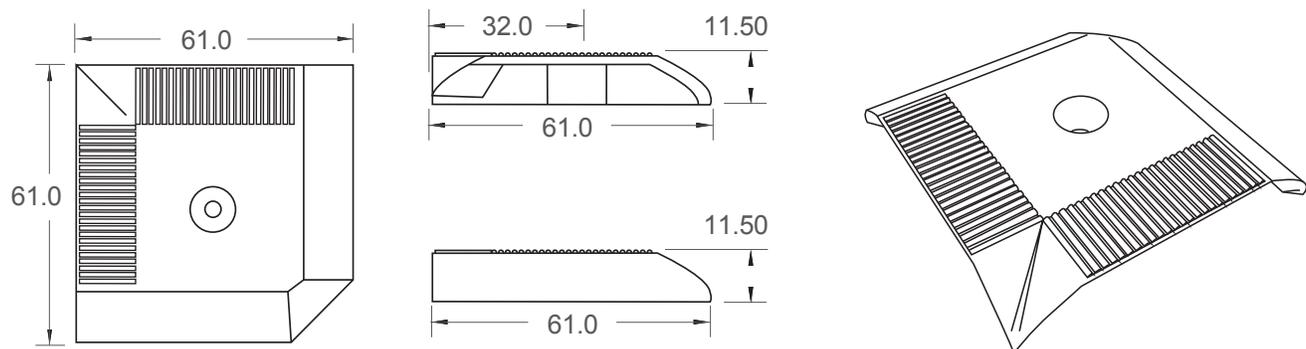
The end cap made with ebonite rubber is used to hide the connection and allows cables to pass through one segment to another, closing and sealing the end of each segment. (please refer to wiring diagram)



\* All measurements in mm

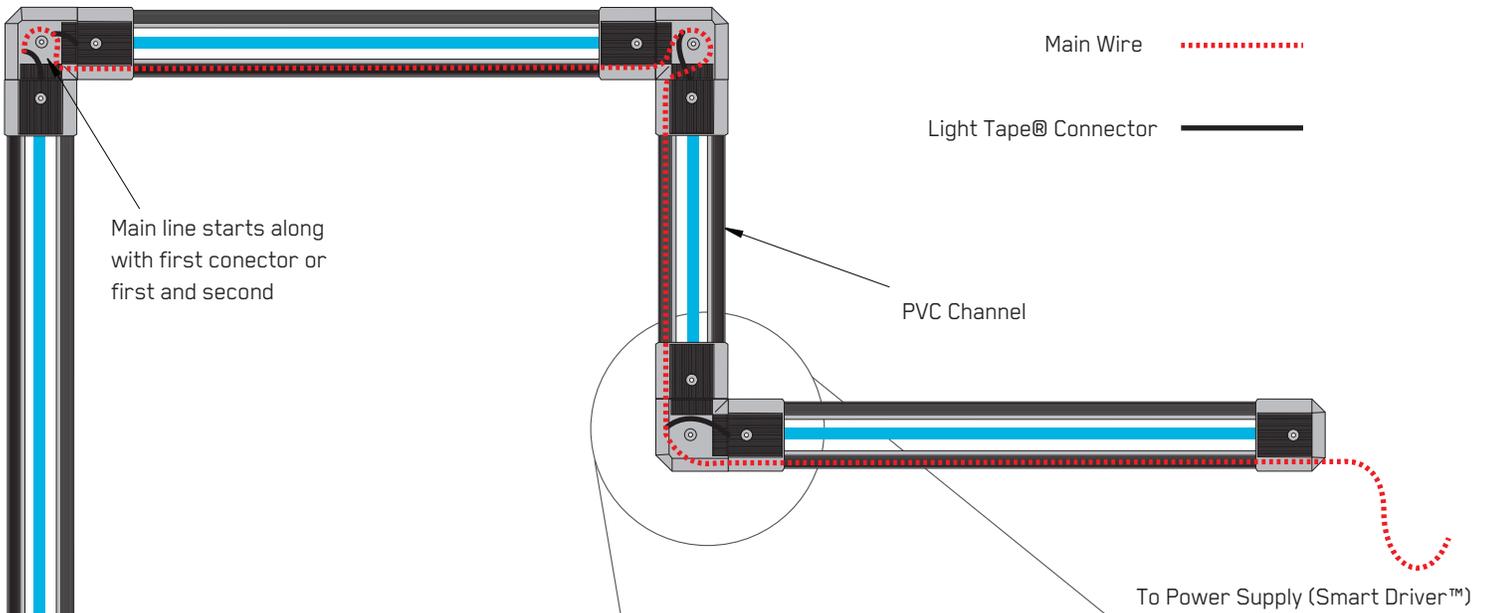
### 90° angle cap

90 degree angle caps can be used as a cable junction box and allow you to connect multiple segments to main wire, as well as join two end caps into a 90 degree angle.



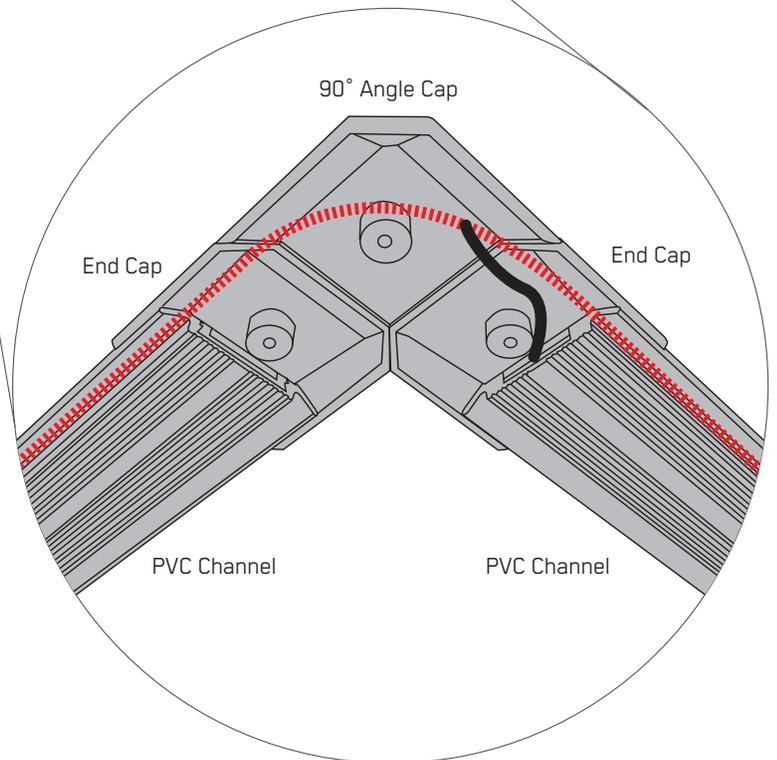
\* All measurements in mm

## Wiring setup for several segments with 90° angles

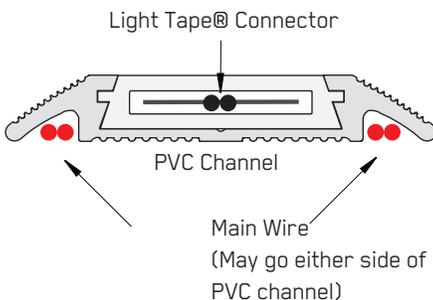


### Detailed bottom view of 90° angle connection setup

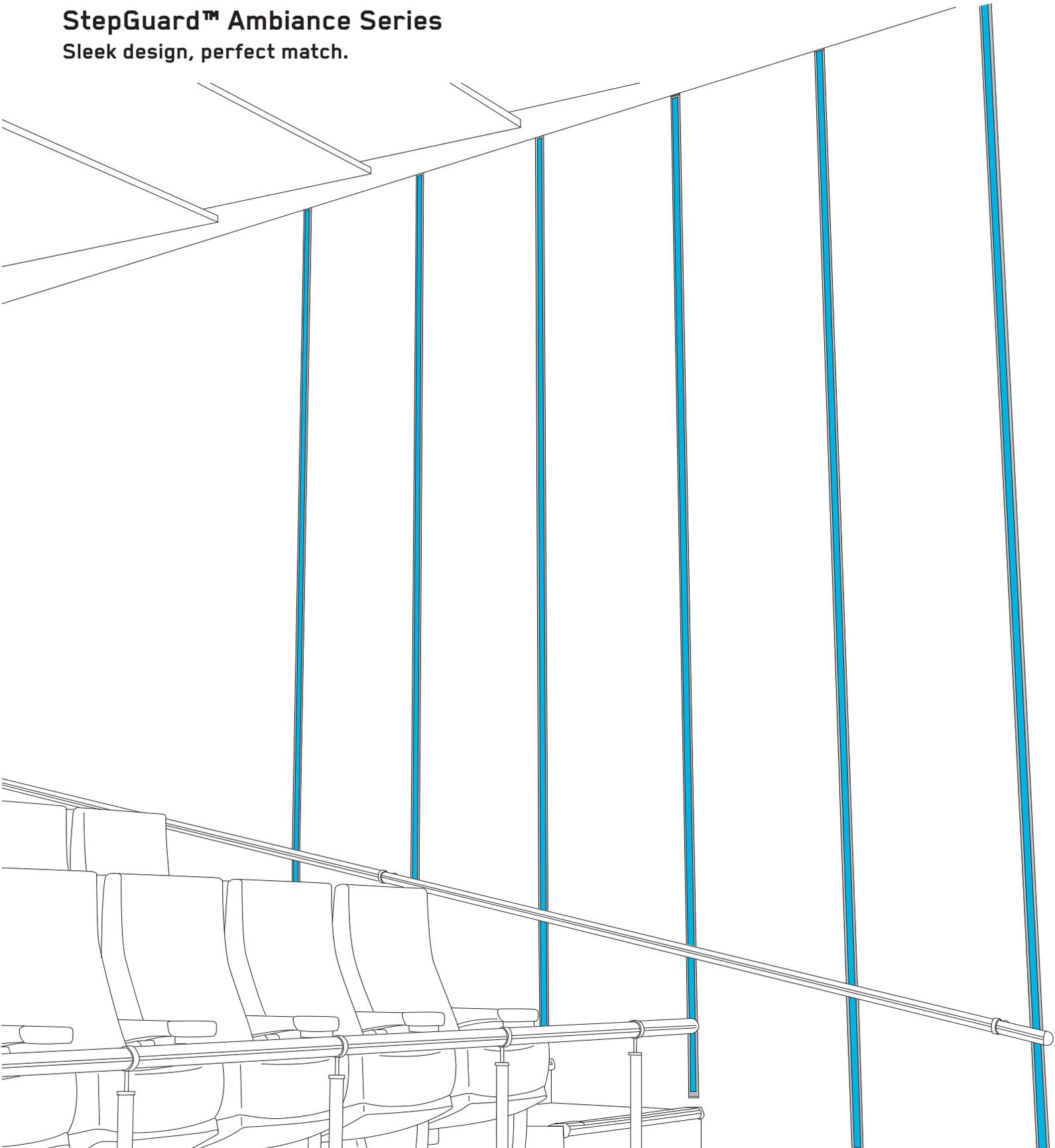
Main wire goes all the way through channel, connectors should be located preferably at the corner end caps. Connections may vary and should be arranged based on your illumination setup on site.



### Channel Front View

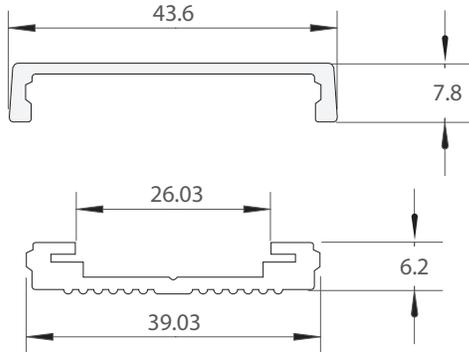


**StepGuard™ Ambiance Series**  
Sleek design, perfect match.

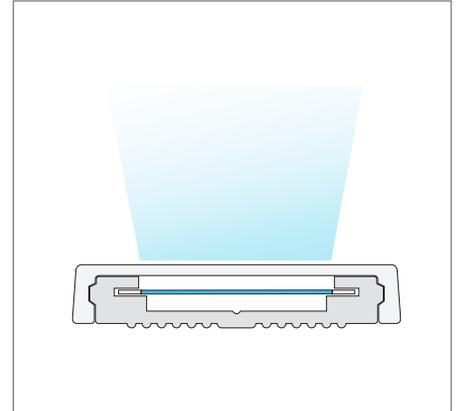


## General dimensions and configuration

\* All measurements in mm



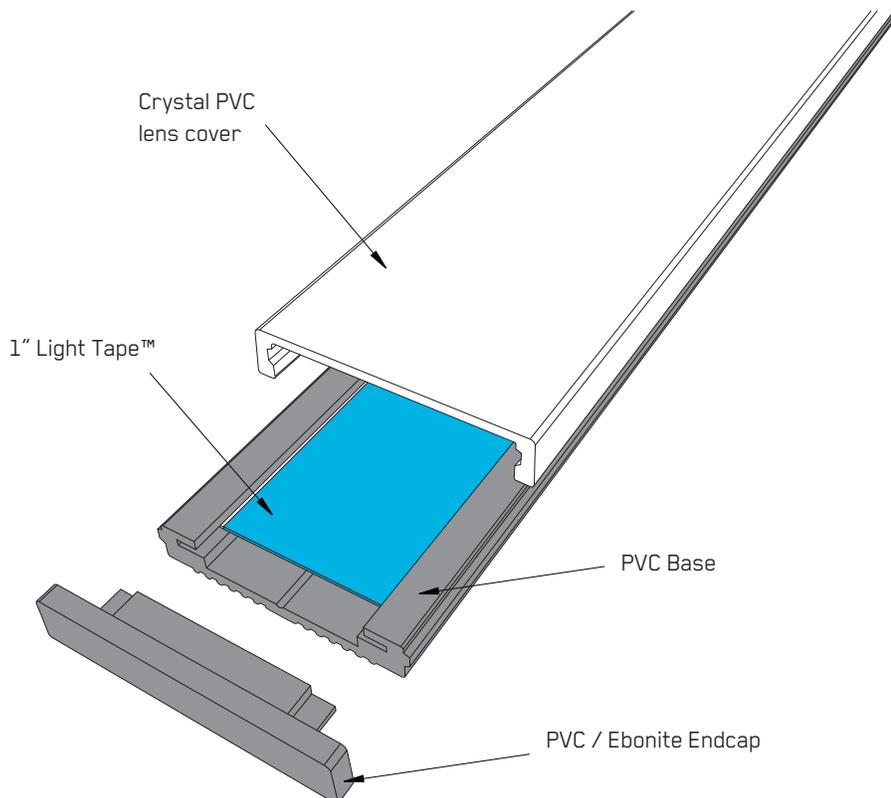
## StepGuard™ Ambiance 100



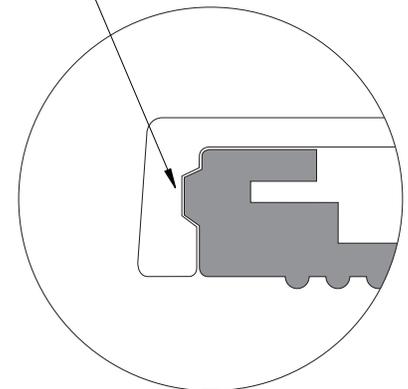
Our two-part mounting system consists of a PVC channel with acrylic lens (available in 2 meter lengths). Ambiance 100 is designed for use with 1" Light Tape®, which is available in lengths up to 150 feet / 45m on a single connection. No soldering, heat, dots, or on-screen glare, and installation is a breeze. All one person needs is a drill, level and scissors.



Available Colors

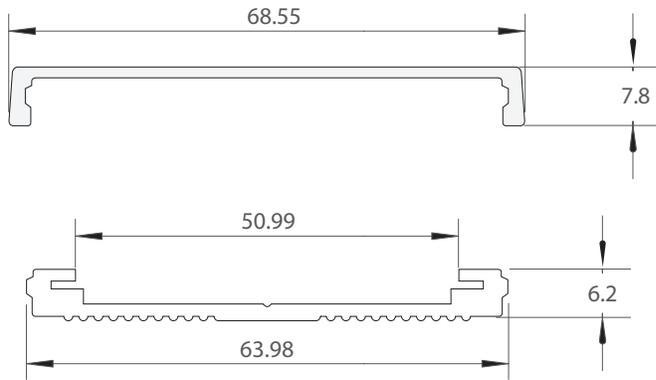


**SNAP FIT SYSTEM**  
For fast and easy installation

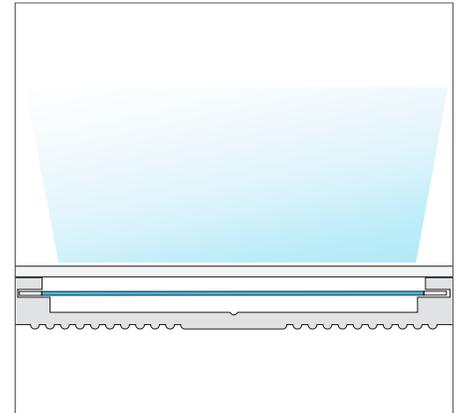


**General dimensions and configuration**

\* All measurements in mm



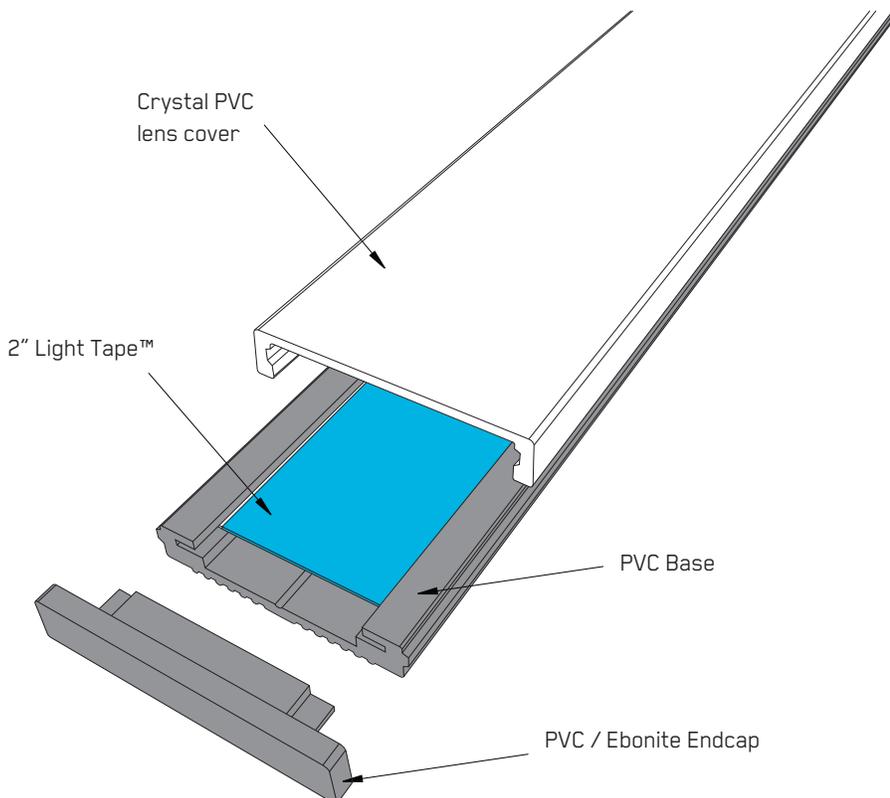
**StepGuard™ Ambiance 200**



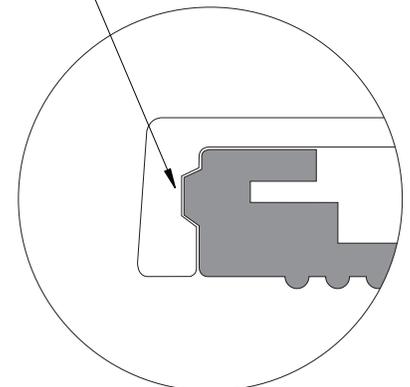
Our two-part mounting system consists of a PVC channel with acrylic lens (available in 2 meter lengths). Ambiance 200 is designed for use with 2" Light Tape®, which is available in lengths up to 75 feet / 23m on a single connection. No soldering, heat, dots, or on-screen glare, and installation is a breeze. All one person needs is a drill, level and scissors.



Available Colors

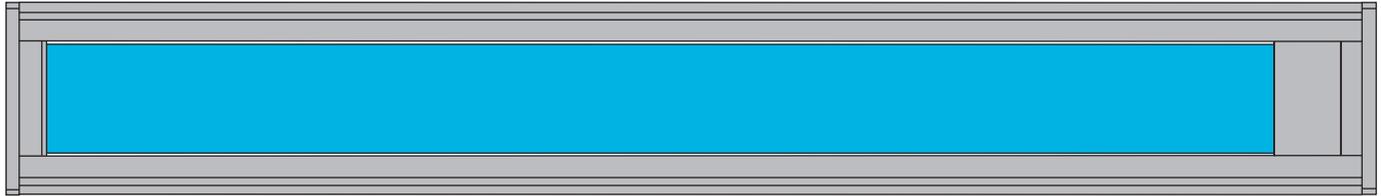


**SNAP FIT SYSTEM**  
For fast and easy installation



## Installing StepGuard™ Ambiance is a SNAP!

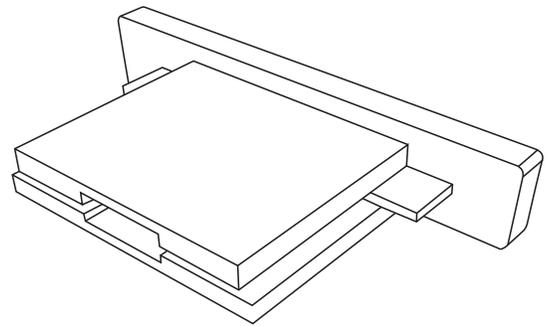
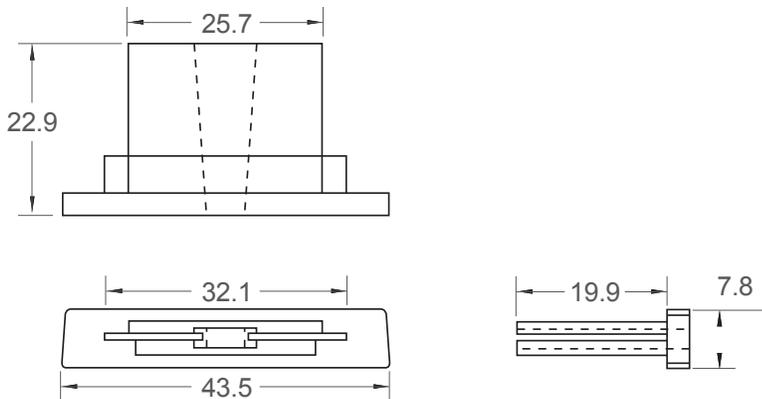
Light Tape® is available in rolls of up to 45m for 100 series, and 23m for 200 series. The 2 meter base segments can be mounted side by side to create a continuous run to your specification. The Wall system is simple to install - just screw the base onto your wall, slide in the Light Tape®, push end caps in place and adjust the PVC clear lens on top with a soft push until you hear a click. It is as easy as 1, 2, 3!



## Mounting & Wiring Accesories (Ambiance 100)

### Connector end cap

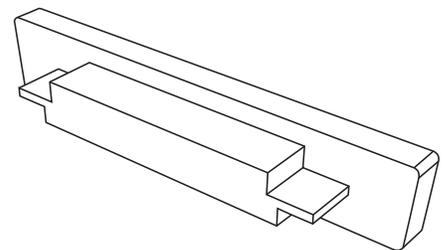
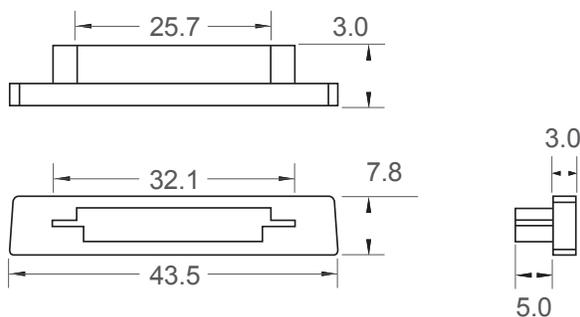
The connector end cap is made of Ebonite rubber and used to hide the connection. It allows cables to pass through the cap for an easy wiring setup (please refer to wiring diagram).



\* All measurements in mm

### End cap

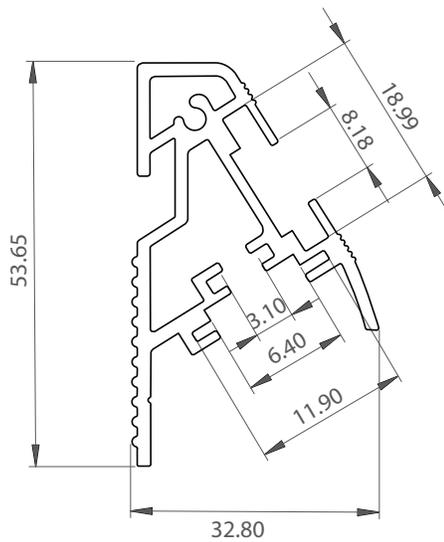
The end cap is made of Ebonite rubber and used to close a lighting segment. Just push it on end and it is ready (please refer to wiring diagram for more details).



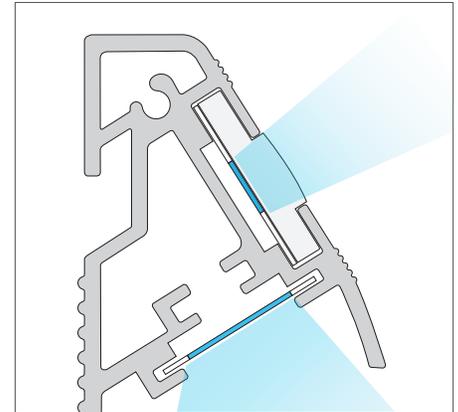
\* All measurements in mm

## General dimensions and configurations

\* All measurements in mm



### StepGuard™ WallGuide DUO

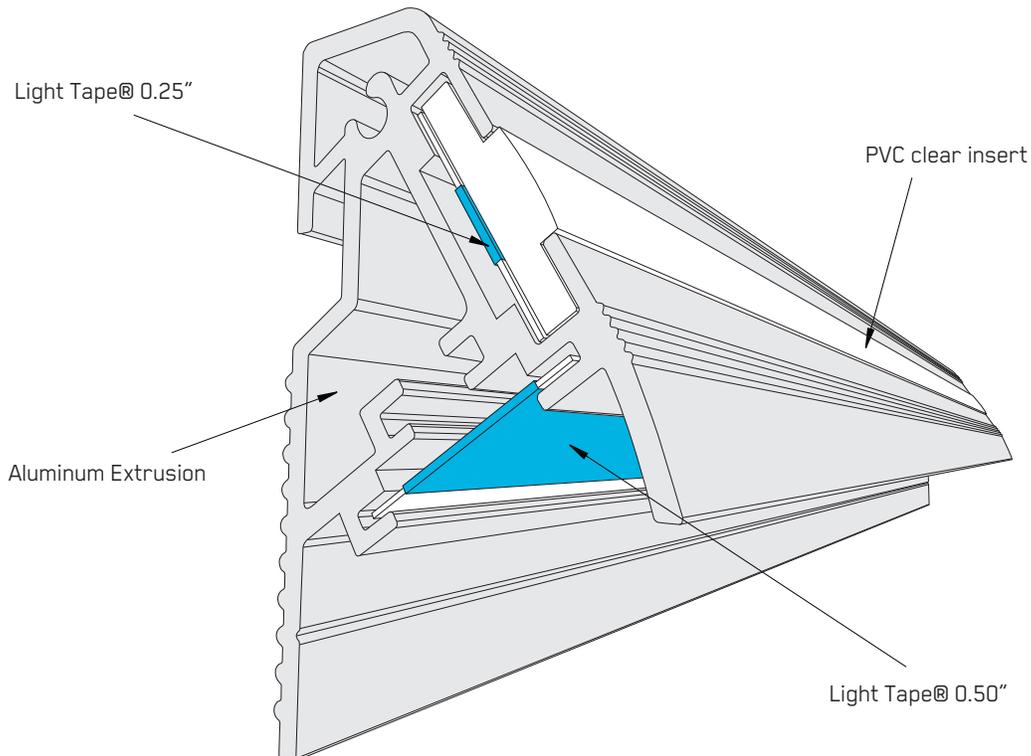


Aluminum channel available up to 4 meters in length.  
For use with 0.25" Light Tape® on top and 0.50" Light Tape® on bottom.

LED may be offered as an option for downlight.

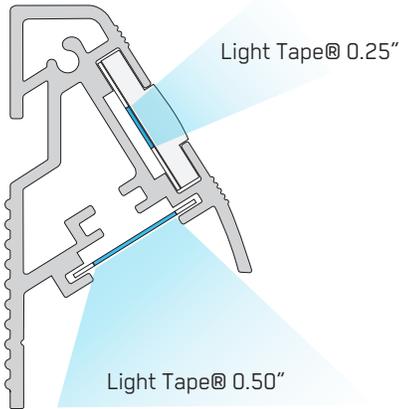


Available Colors

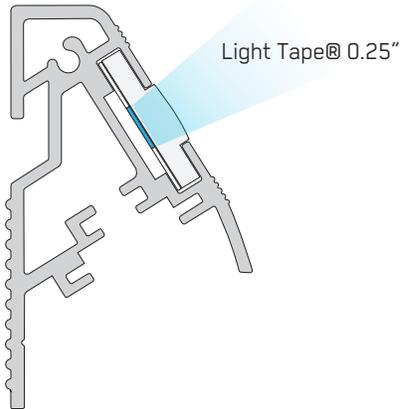


## Wide range of configurations

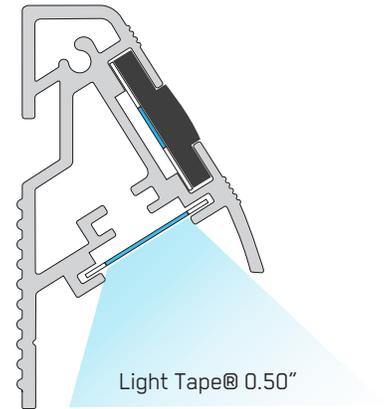
WallGuide DUO



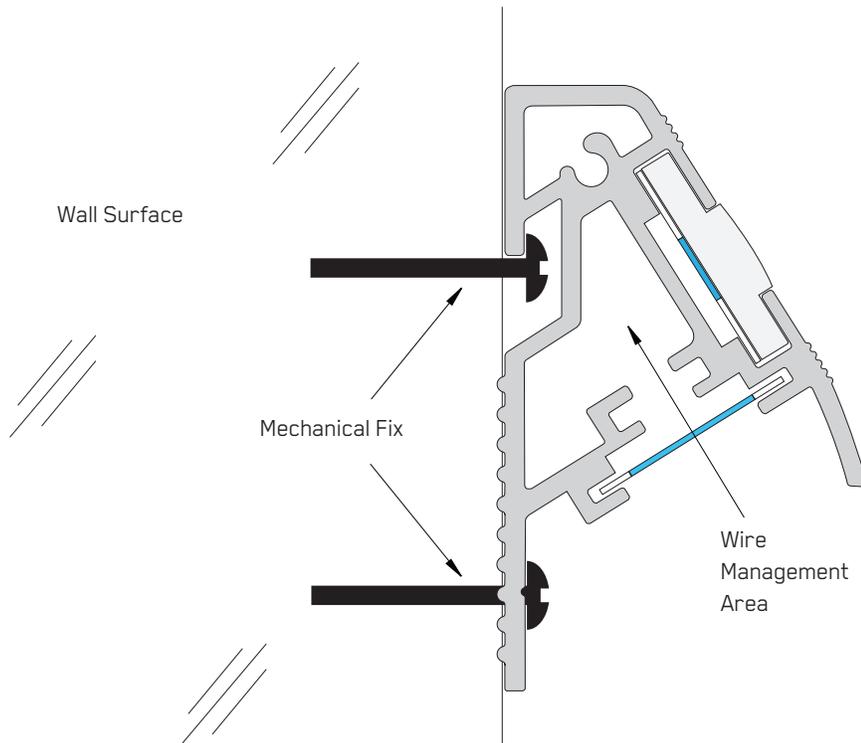
WallGuide OT



WallGuide DL

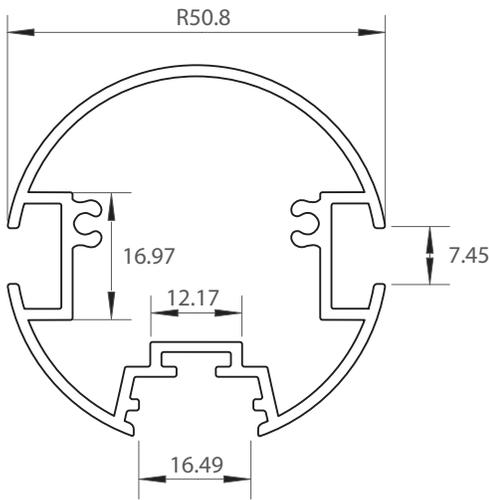


## Installation

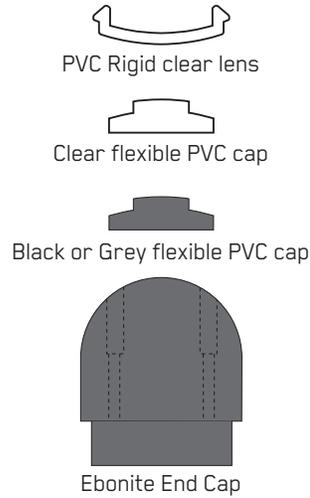


## General dimensions and configurations

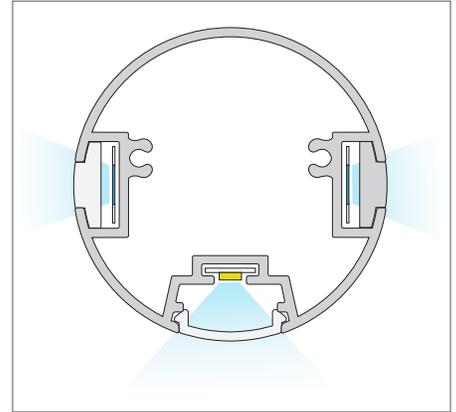
\* All measurements in mm



### Accessories



### StepGuard™ Light Rails

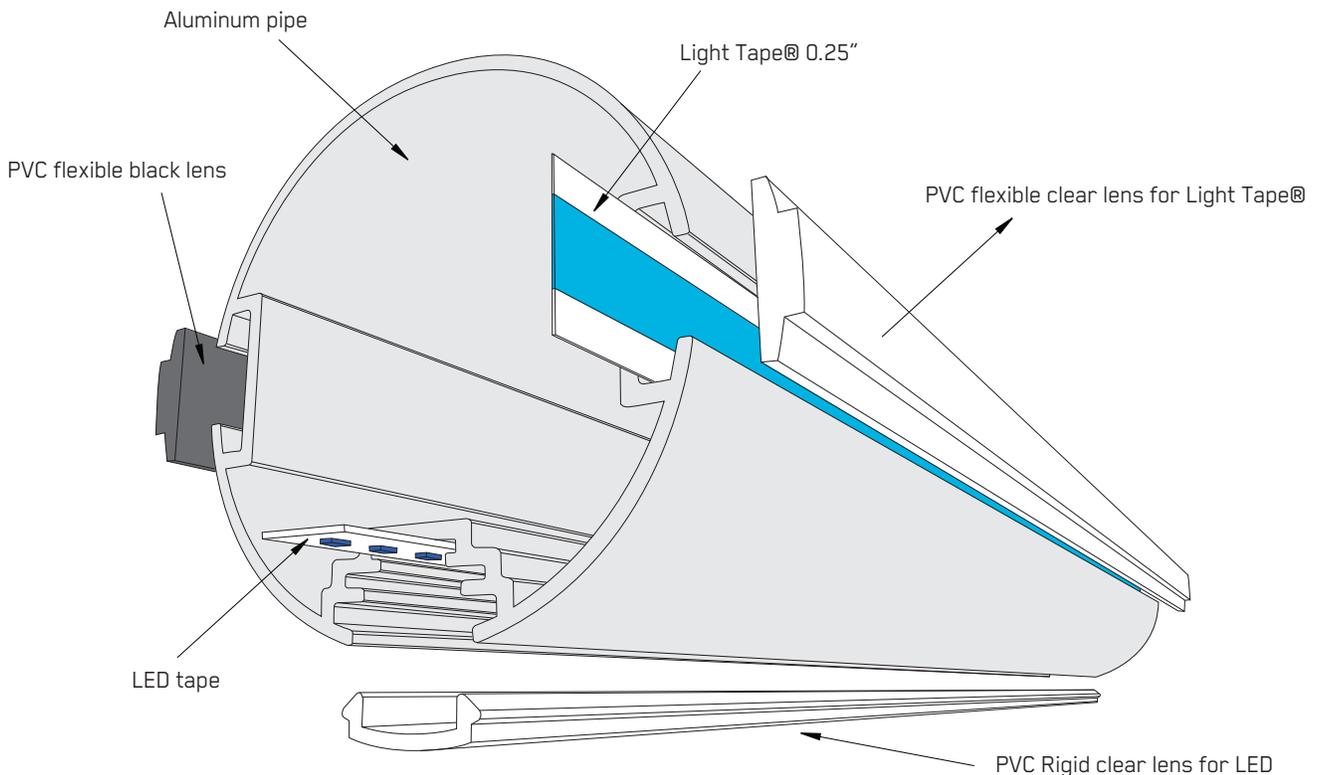


Aluminum handrail pipe extrusion available up to 4 meter length. Pre-cut and assembled according to specification. It can be extended to any length.

Can be used with Light Tape® on either visible side or mixed with LED for floor illumination. Can be also used only with LED.



Available Colors



## StepGuard™ SN / Step Row Number

### Features

- StepGuard® is exclusively made for Light Tape® electroluminescent lamps.
- Smart Driver™ Dimmable & DMX power source
- High Resistance ABS case for heavy duty use.
- Polycarbonate enclosure for total protection of light.
- Separated wiring: Unit can be connected to stair Light directly or on a single wiring setup.
- Units are delivered pre-assembled for easy installation.



### Warranty

3 Year Limited Warranty on case and accessories for indoor use.

## Technical Information

### ABS Case / Polycarbonate Cover

- PVC base and cover case.
- Assembled and customized with sign or letter according to specification.

### Light Source

- Light Tape® EL tapes with over 12 colors to choose from
- Illuminated width 3/4" (19.63mm) Area/
- Length reference: 9cms Illumination source
- 100% Phosphors
- Current / amps: 0.01 (meter)
- Total Watts: 1.00 (meter)
- Illumination coverage: 100% even

### Design Options

1 unit design:

- **StepGuard™ SN**

Available for:

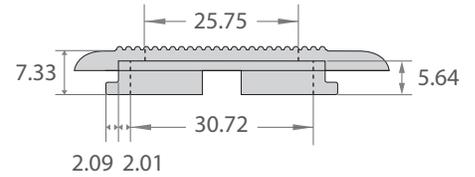
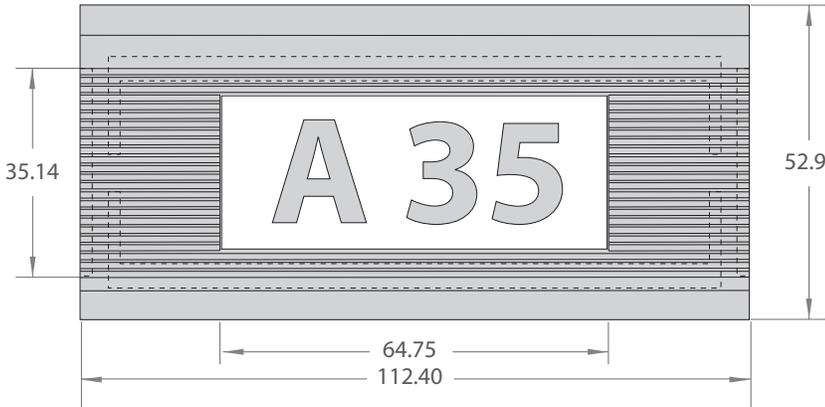
- StepGuard™ 45
- StepGuard™ 30
- StepGuard™ Classic
- StepGuard™ Immersion



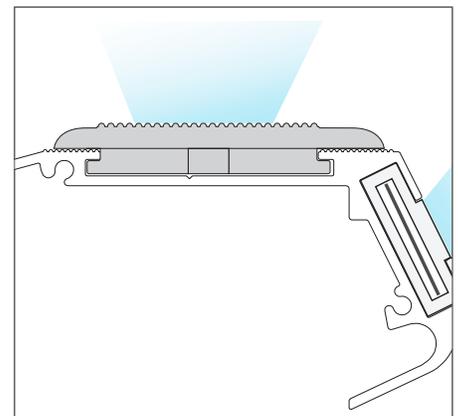
StepGuard™ is exclusively made for Light Tape®

**StepGuard™ SN - General dimensions and configuration**

\* All measurements in mm



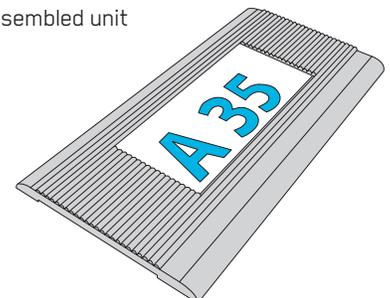
**StepGuard™ SN**



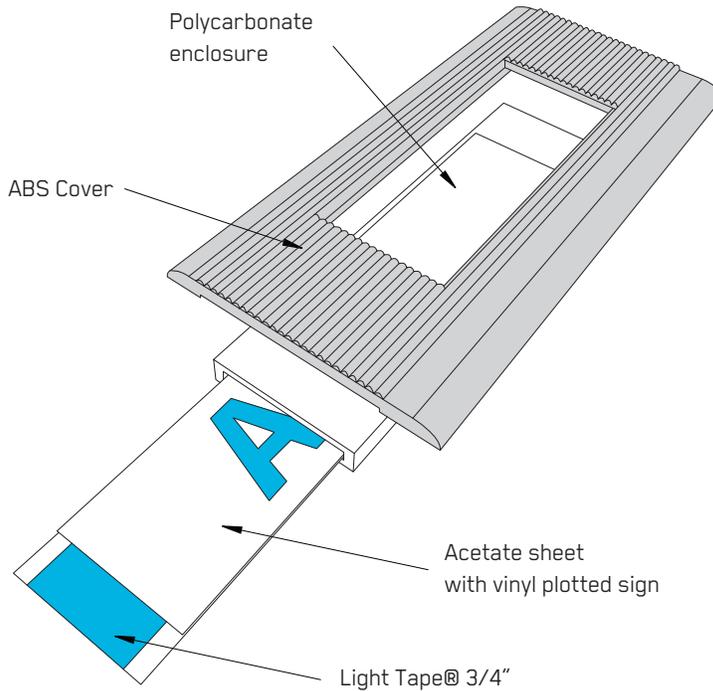
ABS cover / Polycarbonate enclosure unit for row step numbering or signage system. For use with 3/4" Light Tape®.

Customized with any sign or number in black adhesive vinyl.

\*Assembled unit



Available Colors



## StepGuard™ SN Aisle / Seat Numbering

### Features

- StepGuard® is exclusively made for Light Tape®
- Light Tape® Electroluminescent lamp
- Smart Driver™ dimmable & DMX power source
- High Resistance injected PVC case for heavy duty use.
- OSRAM LED Module for tread illumination.
- Separated wiring: black for Light Tape® and polarized for LED Module for easy configuration and setup.
- Units are delivered pre-assembled for easy installation.

### Warranty

3 Year Limited Warranty on case and accessories for indoor use.

## Technical Information

### PVC Case

- PVC base and cover case.
- Assembled and customized with sign or letter according to specification.

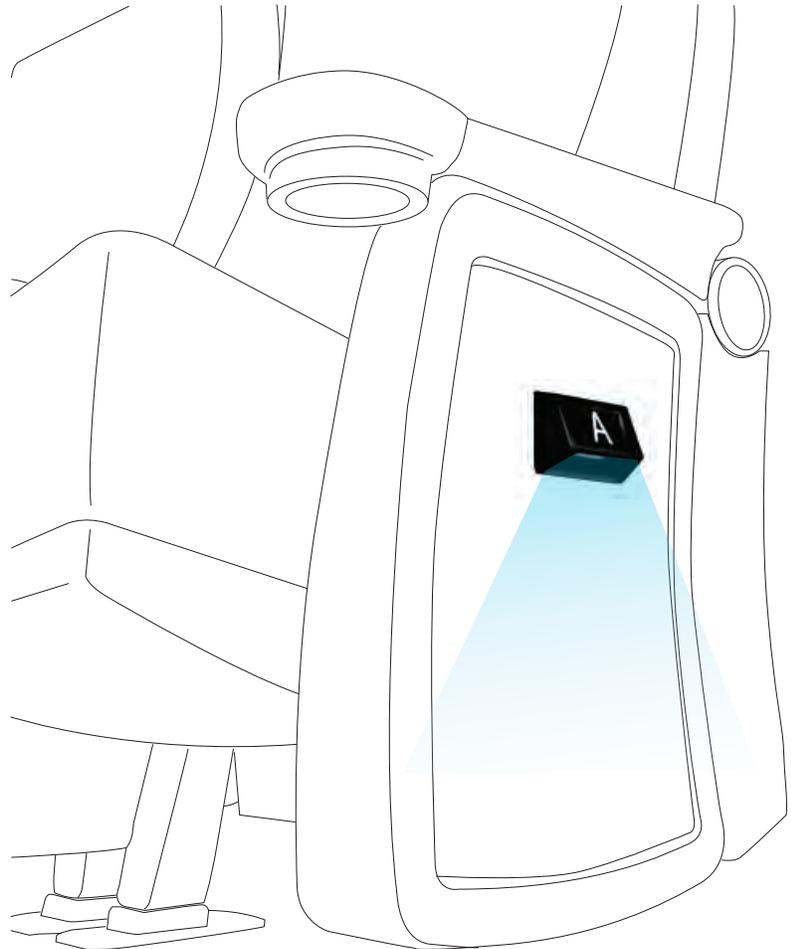
### Light Source

- Light Tape® EL tape with over 12 colors to choose from, or OSRAM LED Module.
- Illuminated width 1.00" (25.4mm)
- Area/Length reference: 7cms
- Illumination source: 100% Phosphors
- Current / amps: 0.01 (meter)
- Total Watts: 1.00 (meter)
- Illumination coverage: 100% even

### Design Options

2 unit designs:

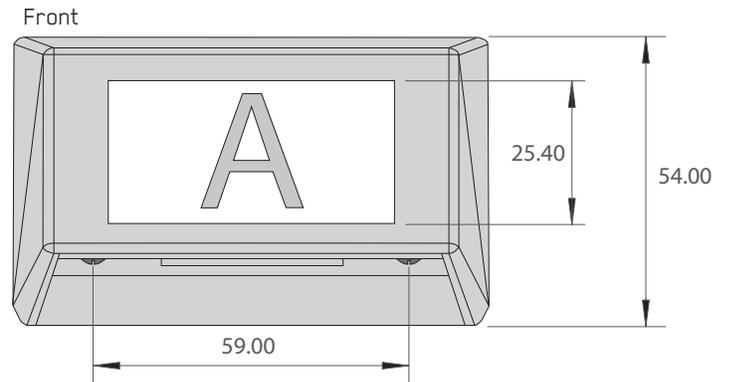
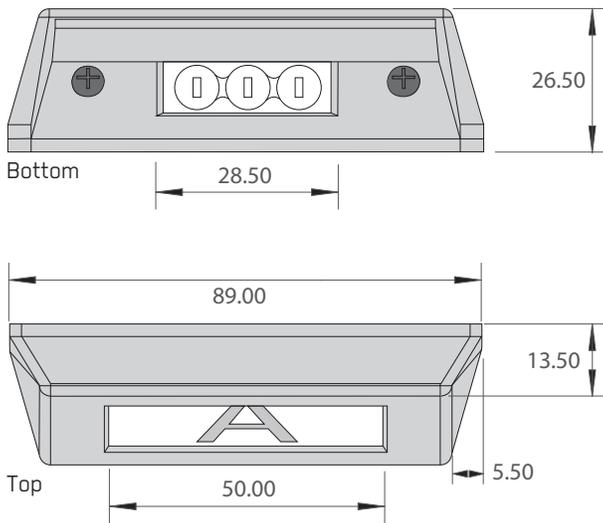
- **StepGuard™ SN**
- **StepGuard™ SNL**



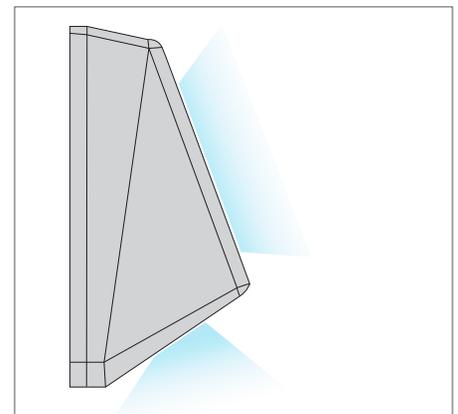
StepGuard™ is exclusively made for Light Tape®

**StepGuard™ SN - General dimensions and configuration**

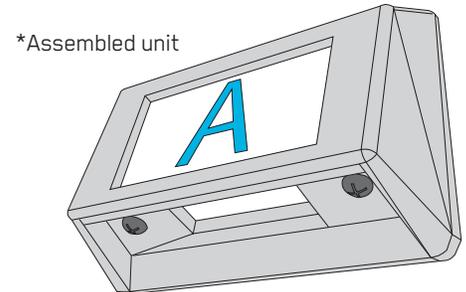
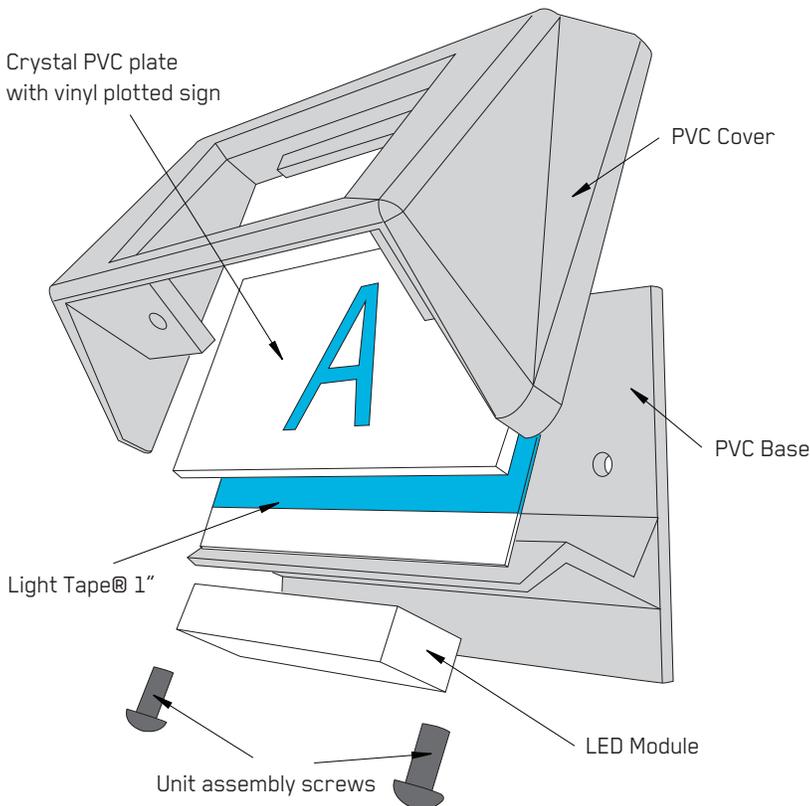
\* All measurements in mm



Available Colors



Black PVC unit for aisle chair numbering or signage system. For use with 1" Light Tape® on sign combined with OSRAM LED module on bottom for aisle and tread illumination. Customized with any sign or number in black adhesive vinyl.



## StepGuard™ SNL Aisle / Seat Numbering

### Features

- StepGuard® is exclusively made for Light Tape®
- Light Tape® Electroluminescent lamp
- Smart Driver™ dimmable & DMX power source
- High Resistance injected PVC case, for heavy duty use.
- A110 LED Module for tread illumination.
- Separated wiring: black for Light Tape® and polarized for LED Module for easy configuration and setup.
- Units are delivered pre-assembled for easy installation.

### Warranty

3 Year Limited Warranty on case and accessories for indoor use.

## Technical Information

### PVC Case

- PVC base and cover case.
- Assembled and customized with sign or letter according to specification.

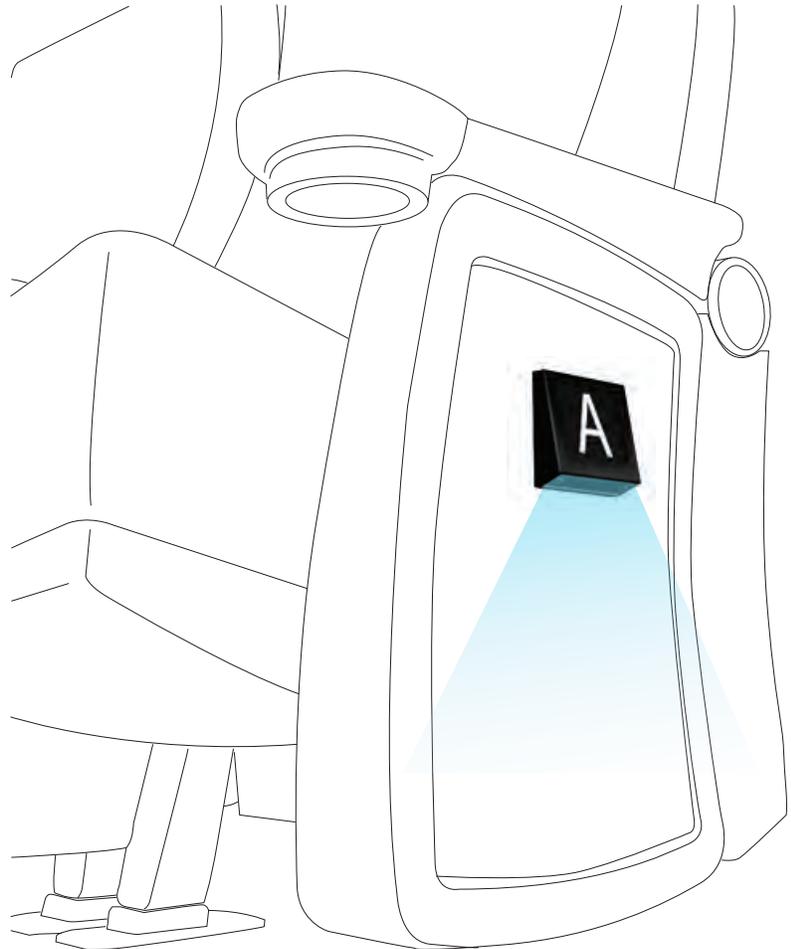
### Light Source

- Light Tape® EL tapes. Over 12 colors to choose from. Generic A110 LED Module.
- Illuminated width 2.00" (50.8mm)
- Area/Length reference: 6 cms
- Illumination source: 100% Phosphors
- Current / amps: 0.01 (meter)
- Total Watts: 1.00 (meter)
- Illumination coverage: 100% even

### Design Options

2 unit designs:

- **StepGuard™ SN**
- **StepGuard™ SNL**

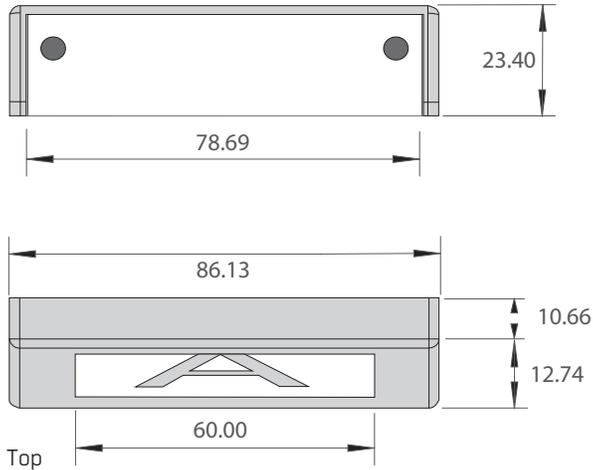


StepGuard™ is exclusively made for Light Tape®

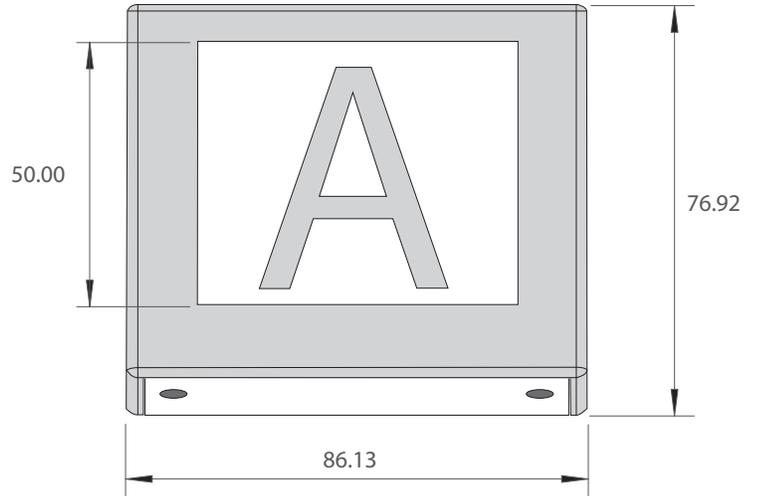
**StepGuard™ SNL - General dimensions and configuration**

\* All measurements in mm

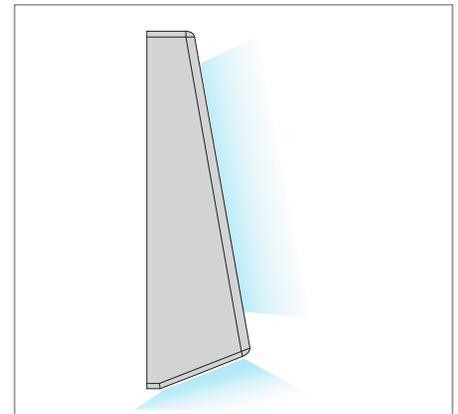
Bottom



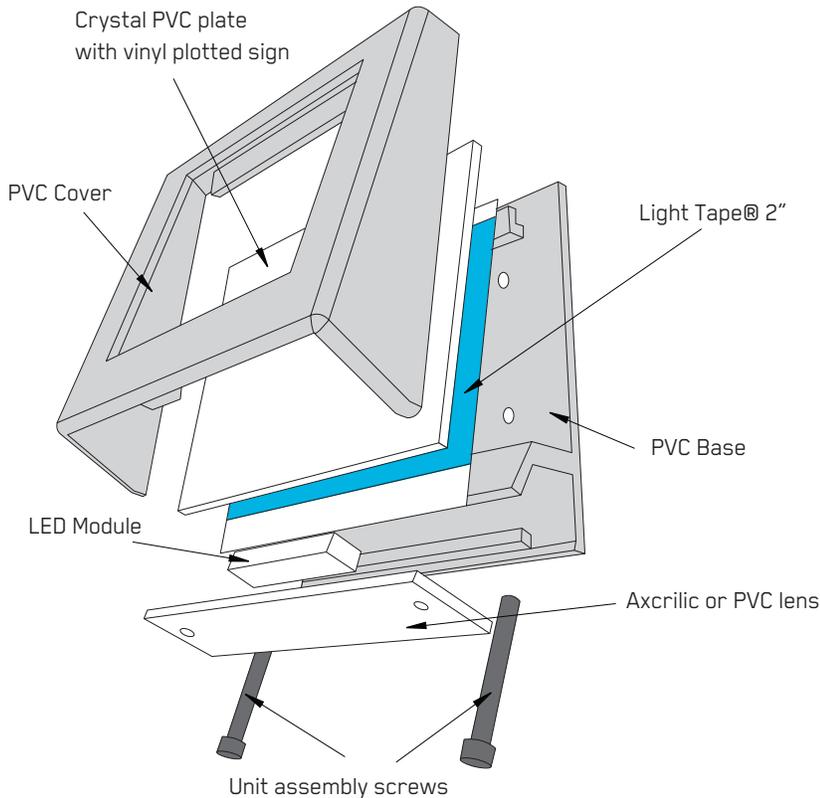
Front



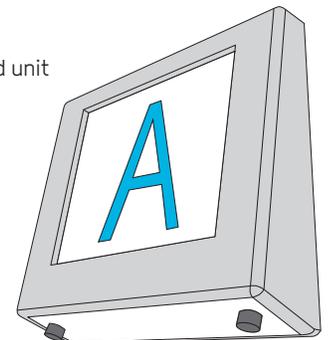
Available Colors



Black PVC unit for aisle chair numbering or signage system. For use with 2" Light Tape® on sign combined with Generic LED module on bottom for aisle and tread illumination (optional). Customized with any sign or number in black adhesive vinyl.



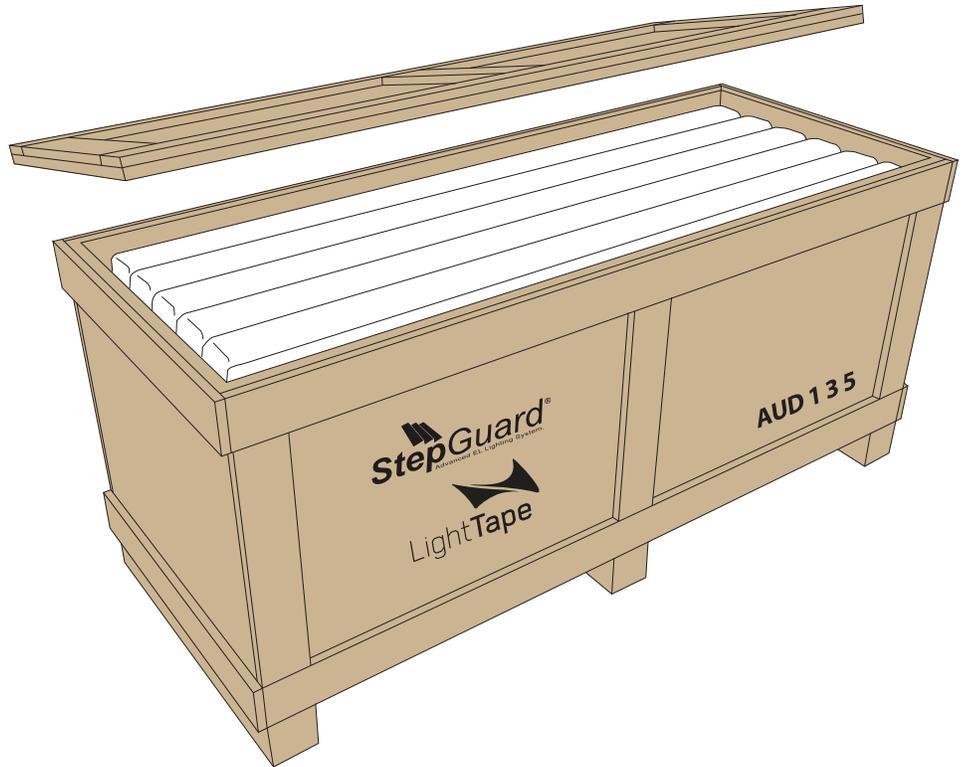
\*Assembled unit



## Export Packing

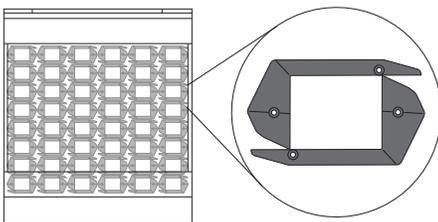
### Features

- Sturdy Palletized Wooden Crate made of Certified Wood as per International Standard for Phytosanitary Measures (ISPM15 or NIMF15).
- Sealed with screws and secured with plastic bands and two security labels with consecutive numbering or code.
- Every box is stenciled with logos and description of content.
- Interior of crate is protected with kraft paper and bubble wrap for extra protection.
- Every Box is made to size according to customer's order.



### Packing Unit

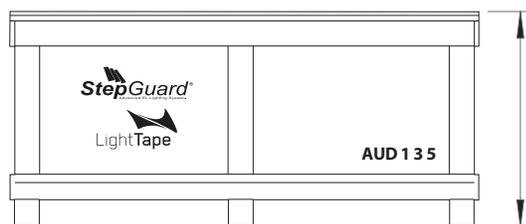
Units are packed in pairs (as per detail). Box includes also Smart Drivers and spares if requested.



Packing unit  
(6 x 10 cms)

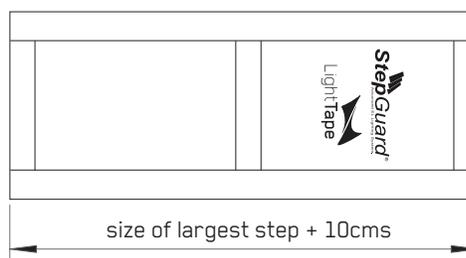
### Box Dimensions

Height (front view)

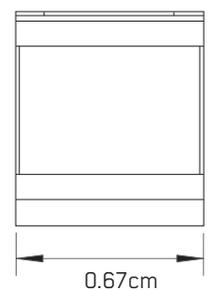


Height of box is calculated by taking the quantity of steps, divided by 12 which is the maximum quantity per row (six pairs). Then adding 6 cms to packing unit and 14cms for the skids and box wall.

Length (top view)



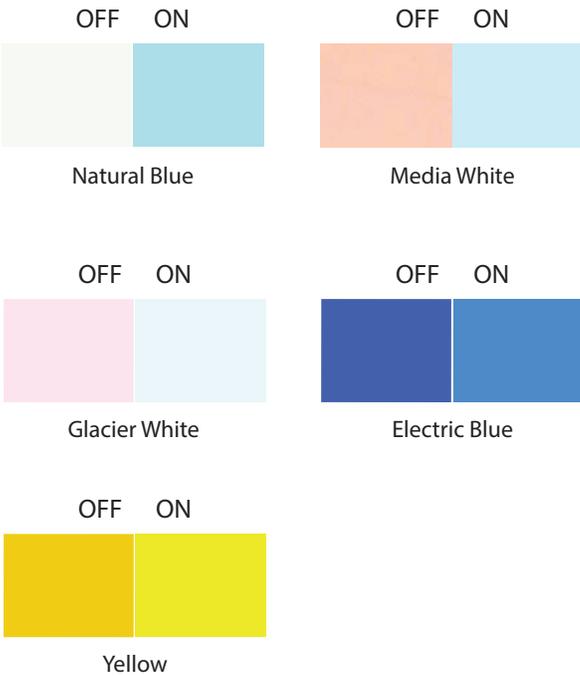
Depth (side view)



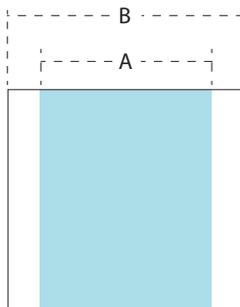
## Color Options

Our base colors are Classic Natural Blue and Extreme Blue-Green. These colors appear white when off and colored when illuminated. We then add a filter to produce specific color options. All other colors will remain that color when not illuminated. Please check our website for updated and new colors.

### Classic Series

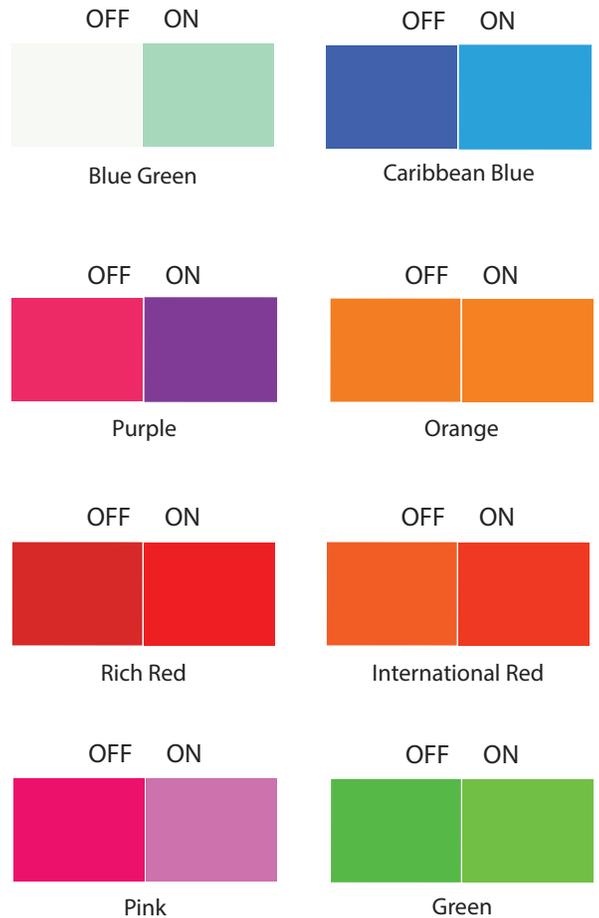


A	B	Inches
6.35mm	19.05mm	0.25



A= Illuminated width  
B= Laminated width

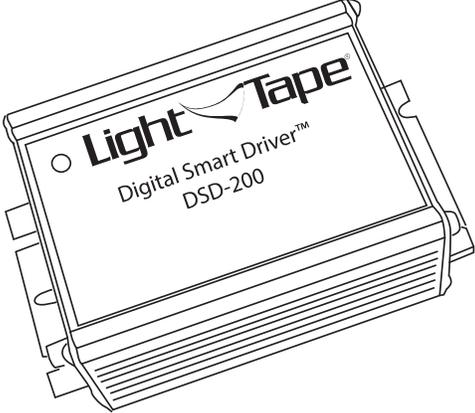
### Extreme Series



\* The colors in this table are simulated and the final product may vary. If an exact color is required, we recommend seeing a physical sample. Custom colors and widths are available, but may be subject to minimum order quantities, set-up fees, and approval testing.

## Digital Smart Driver™ Power Supply

Digital Smart Driver™ power supplies are specifically engineered to illuminate Light Tape®. Whether it is one segment or 80, it is possible to do it all with one Smart Driver™. There are a variety of models to choose from offering a variety of useful features. A factory representative will advise which model to use based on the total illuminated area, zones, and location.

	<ul style="list-style-type: none"> <li>• Quiet</li> <li>• Stylish compact design</li> <li>• Rated input voltage 110 / 220 VAC</li> <li>• Protection Class 1</li> <li>• IP Degree 2x</li> <li>• Worldwide voltage capacity</li> <li>• Blink and Dimmer Switch</li> <li>• Visual LED system status indicator</li> <li>• Lightweight</li> <li>• Short circuit and overload protection</li> <li>• CE, UL y CSA compliant</li> <li>• 0-10 dimming</li> </ul>
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## Driver Ranges and Output

Driver Model	Range		Input		Output
	English System	Metric System	Ams	Watts	Max. Current, A
SD-8000	4000 - 8000 pulg <sup>2</sup>	25,806 - 51,612 cm <sup>2</sup>	3.50	420	3.8
BUS-DSD-4000	2000 - 4000 pulg <sup>2</sup>	25,806 - 51,612 cm <sup>2</sup>	3.50	420	3.8
DMX-DSD-4000	2000 - 4000 pulg <sup>2</sup>	12,903 - 25,806 cm <sup>2</sup>	1.5	145	2.1
DMX-DSD-2000	1000 - 2000 pulg <sup>2</sup>	6,451 - 12,903 cm <sup>2</sup>	1.0	110	1.2
DMX-DSD-1000	400 1000 pulg <sup>2</sup>	2,580 - 6,451 cm <sup>2</sup>	0.9	100	1.0
DMX-DSD-200	1 - 200 pulg <sup>2</sup>	6,5 - 1,290 cm <sup>2</sup>	0.5	12	0.15
DSD-200 D	1 - 200 pulg <sup>2</sup>	6,5 - 1,290 cm <sup>2</sup>	0.5	9	0.15
DSD-2000	1000 - 2000 pulg <sup>2</sup>	6,451 - 12,903 cm <sup>2</sup>	2.8	68	0.91
DSD-1000	400 - 1000 pulg <sup>2</sup>	2,580 - 6,451 cm <sup>2</sup>	0.9	97	0.32
DSD-400	200 - 400 pulg <sup>2</sup>	1,290 - 2,580 cm <sup>2</sup>	0.7	17	0.11
DSD-200	1 - 200 pulg <sup>2</sup>	6,5 - 1,290 cm <sup>2</sup>	0.5	9	0.15

\*Max Vac is 320v at 750hz

## Smart Driver™ Safety & Handling

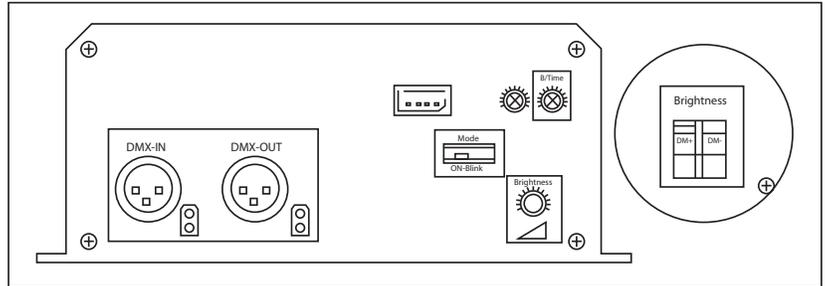
It is important that you operate Light Tape® and Smart Driver Power Supplies within their parameters. Changes to parameters that result in over current will damage the Light Tape® lamp and power supplies.

- Always attach Light Tape® load before powering .
- 250 volts is mid-range and recommended set point.
- The external dimmer switch on Smart Driver™ controls the output voltage and frequency.
- Use a voltage meter to determine volts /hertz from Smart Driver™ to Light Tape®.
- Always set power supply output voltage per factory recommended setting.  
Low: 200 volts | Medium: 250 volts | High: 300 volts
- We DO NOT recommend exceeding 300 volts. Contact us if the Smart Driver™ is operating outside of range .
- Red LED indicates the following :
  - a.Short Circuit Protection : Check wiring if light is on.
  - b.Overload Protection: Verify that lamp area is acceptable, or for possible damage to lamp.
- Always treat Light Tape® and Smart Driver™ with care and respect as one would with any device where electrical current is present
- Please store in appropriate NEMA enclosure for outdoor/ damp location.
- Please follow local electrical codes .

## Digital Smart Driver™ Power Supply

### Features

- StepGuard® is exclusively made for Light Tape®
- DMX Mode- 512 Supplies are fully DMX controllable, allowing for integration into complicated stage and light show.
- Blink Mode- Allows for on/off pulse control with fine turning knob.
- Brightness Control- luminosity adjustment to appropriately match installation environment.
- 0-10 Dimming- Optional function to remotely control Light Tape® brightness using standard 0-10v dimmers. Compatible with Lutron Dimmers.



Driver Model	DMX	BLINK	BRIGHTNESS	0-10
SD-8000		X	X	
DSD 200 0-10 DIMMING			X	X
DSD 4000 DMX	X	X	X	X
DSD 1000 DMX	X	X	X	X
DSD 200 DMX	X	X	X	X
DSD 2000			X	
DSD 1000			X	
DSD 400			X	
DSD 200			X	

## Power Supply Dimensions

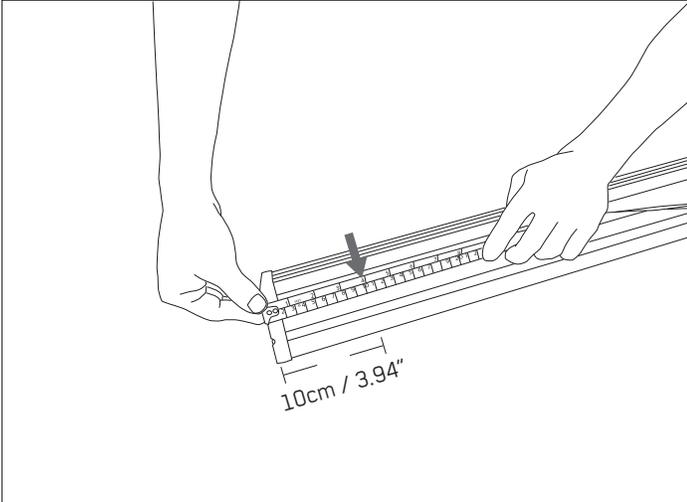
Driver Model	Length		Width		Height		Wheight
SD-8000	9 7/8 in	2.5 cm	4 3/4 in	12 cm	2 1/4 in	5.7 cm	4.15 lb
BUS-DSD 4000	8 3/4 in	22 cm	6 1/4 in	15.8 cm	3 in	7.6 cm	5.15 lb
DMX-DSD 4000	8 6/8 in	22 cm	7 1/4 in	18.5 cm	2 3/4 in	7 cm	4.9 lb
DMX-DSD 2000	8 6/8 in	22 cm	7 1/4 in	18.5 cm	2 3/4 in	7 cm	4.9 lb
DMX-DSD 1000	7 3/4 in	19.5 cm	3 3/8 in	8.5 cm	2 in	5 cm	1.85 lb
DSD 200 DMX	6 in	15.5 cm	2 5/8 in	6.75 cm	1.5 in	4 cm	0.85 lb
DSD 200 D	6 in	15.5 cm	2 5/8 in	6.75 cm	1.5 in	4 cm	0.8 lb
DSD 2000	8 3/8 in	22.5 cm	3 3/8 in	8.5 cm	2 in	5 cm	2.05 lb
DSD 1000	7 3/4 in	19.5 cm	3 3/8 in	8.5 cm	2 in	5 cm	1.85 lb
DSD 400	6 5/8 in	16.5 cm	2 5/8 in	6.75 cm	1.5 in	4 cm	1.05 lb
DSD 200	4 7/16 in	11.3 cm	2 3/4 in	7.0 cm	1 5/8 in	4.1 cm	0.70 lb

STEPGUARD<sup>®</sup>  
**INSTALLATION GUIDELINES**



## Surface and Profile Preparation

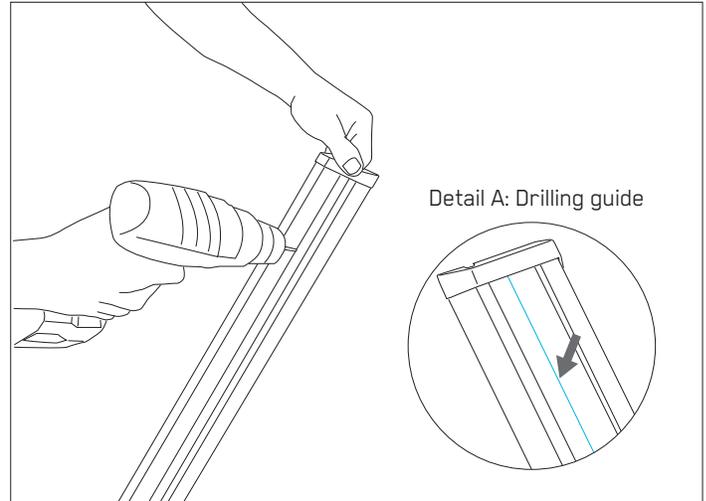
1.



First step is to measure and mark the holes on the profile. We recommend a maximum distance of 10cm on the sides and the other holes should be distributed equally throughout the profile.

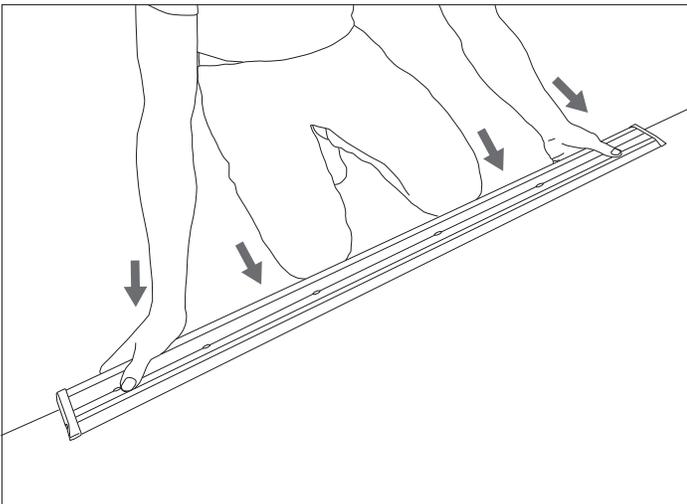
**IMPORTANT:** There should be at least 4 screws per linear meter to ensure a proper fix on surface.

2.



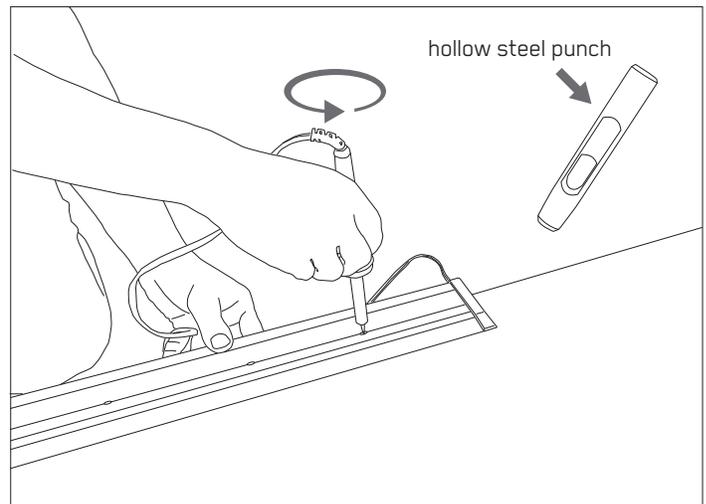
Once you have the marks on the profile, use a metal drill to make the holes. Remember to always use the drilling guide to mark and drill holes as per **Detail A**, because the anti-slip will fit the head of the screws on this area to avoid bumps on it.

3.



Locate the profile on its position and push it against the stair with both hands and knees to make sure drilling holes are as far possible from corner of step. Make sure profile is secure in its final position.

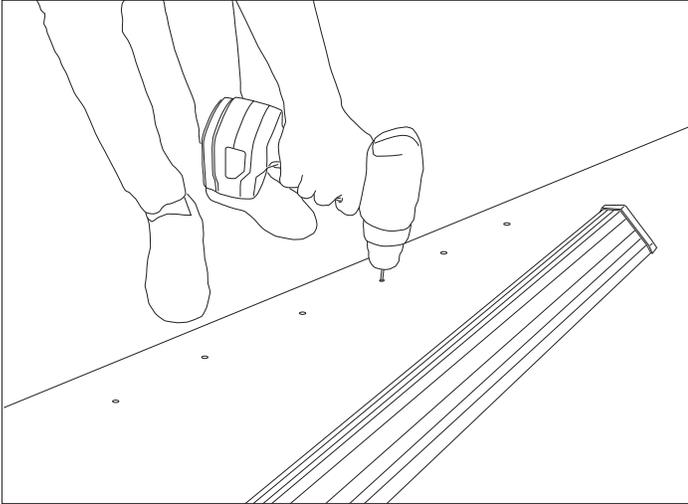
4.



With the help of your knees, keep the profile in its position and burn holes on the carpet with a circular motion on the carpet through the pre-drilled holes of profile. You can also mark the holes on the carpet and use a hollow steel punch or gasket punch (as shown). Now you are ready to drill on concrete without damaging the carpet.

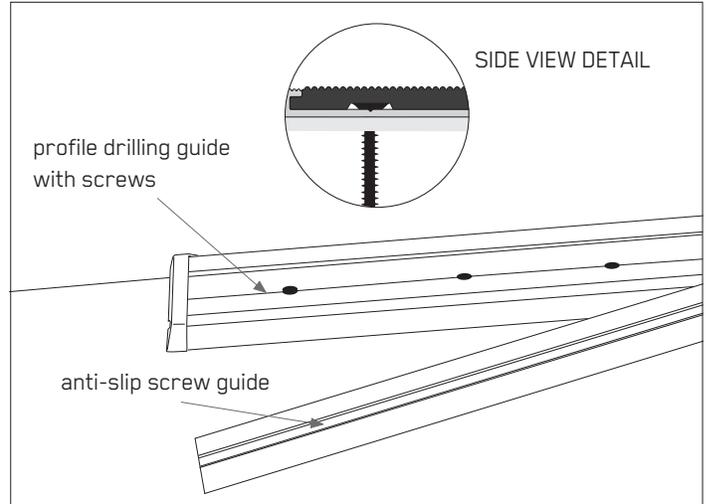
## Installing

1.



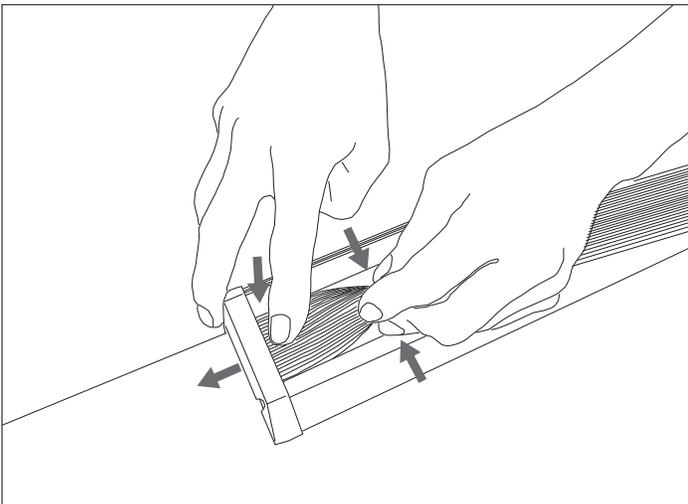
To finalize, drill the holes on concrete or surface and place your screw sledges on place with a hammer. Align profile and screw or hammer on place

2.



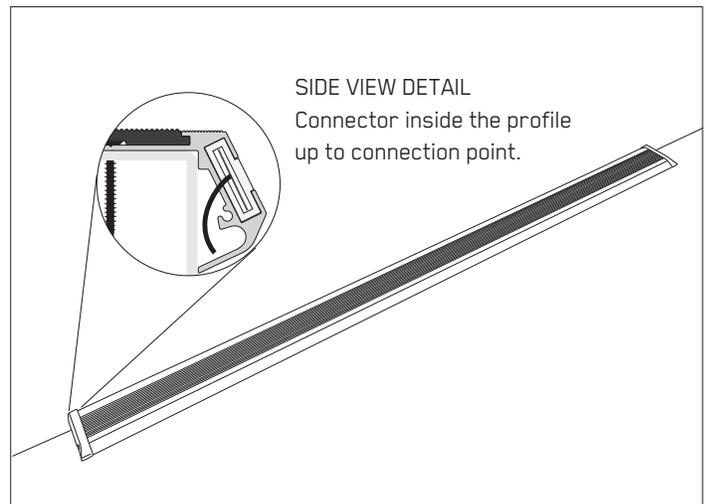
Make sure you place the anti-slip in the correct position matching the screw guide of both parts. No you can begin sliding the anti-slip as explain on next step.

3.



To slide the anti-slip, first push one end underneath the end cap, while pushing the sides. For the rest of the process just push on sides while rubber sits on its position. When finishing on the other side, cut the excess material making sure you leave an extra length (about 1cm-2cm) to fit under the other cap.

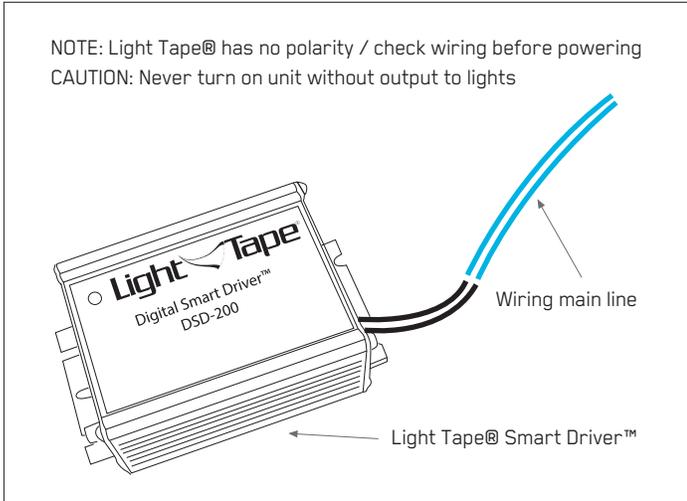
4.



Once unit is installed, do a QC check by stepping on center and sides of the profile, making sure it is fully secured. Also check that connector is hidden inside the profile (see below detail), and there are no loose parts.

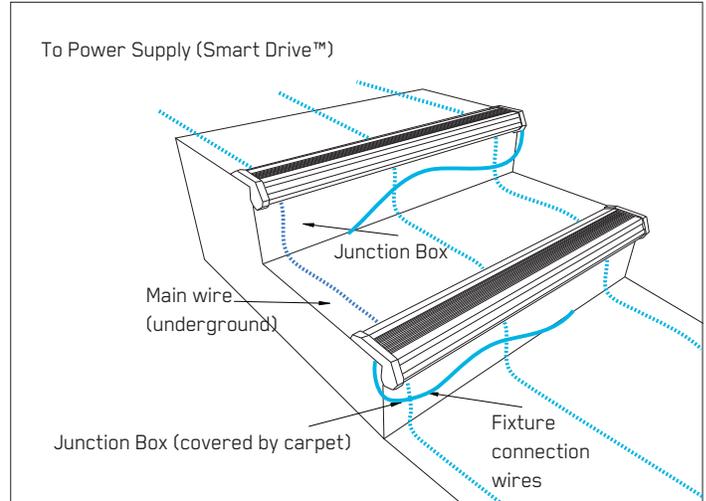
## Connecting and Wiring

1.



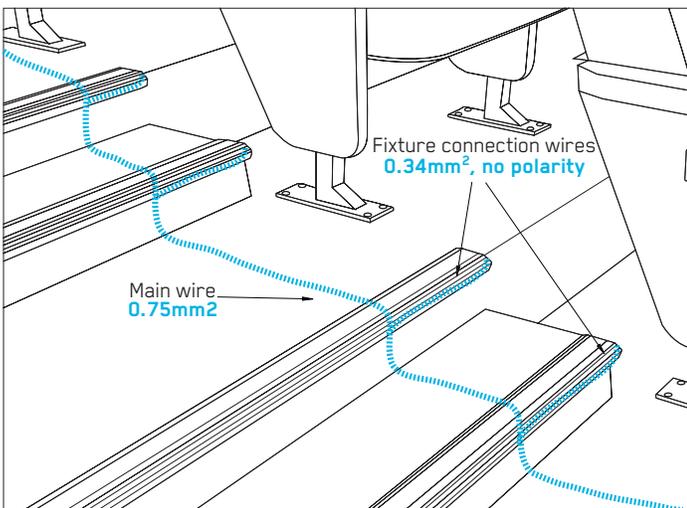
The Digital Smart Driver™ is required to power the Light Tape®. Please make sure you are using the right type of Driver and that is on its illumination range. The driver comes with a dimming button and it should be turned to minimum before powering (if dimming button is included on unit). Once turned on, you can adjust dimmer slowly to desire brightness.

2.



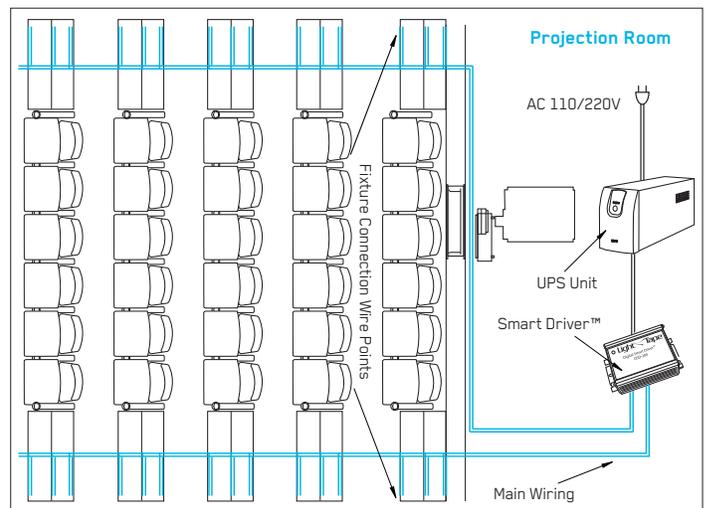
The StepGuard™ step system has been pre-wired to the requested exit side (right or left) when assembling the units at the factory. The main wire, however, can be located through either side or center of the step rows.

3.



The StepGuard® exit connection wires are supplied with 2x0.34mm<sup>2</sup> cables. For the main wiring, we recommend using an 0.75mm<sup>2</sup> cable. Follow all electrical codes when wiring and connecting the system.

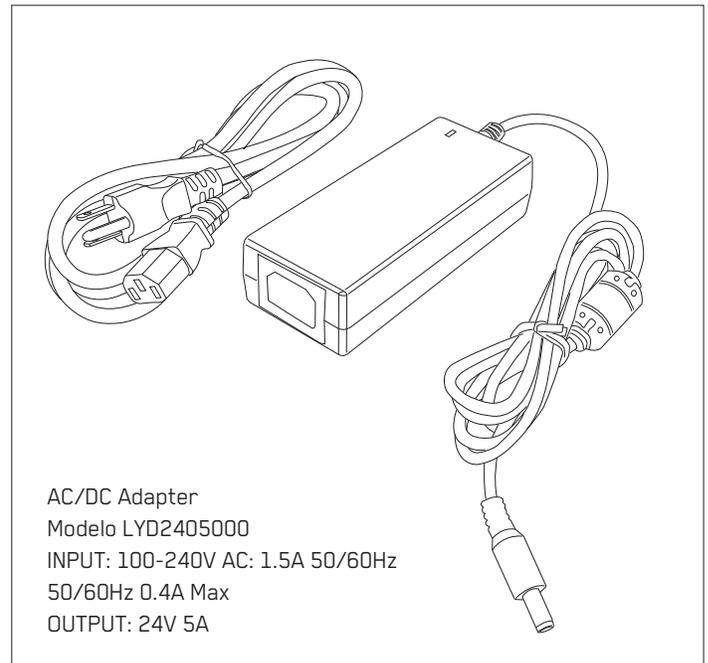
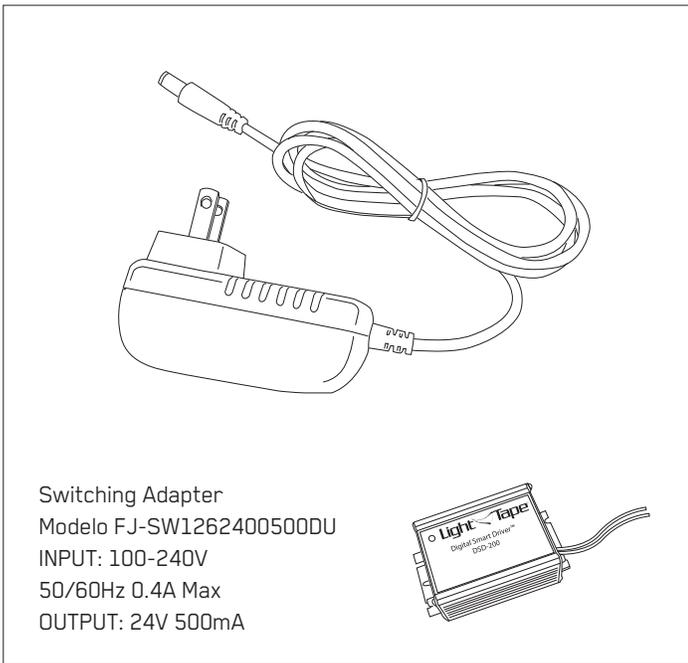
4.



Every step must be properly connected to the main wire following local electrical codes. Please make sure all wire connections are sealed, and there are no loose or pinched wires. For IP65: Dryconn medium waterproof wirenut (#62225) rated for 600V/5A; For standard installation: Ideal 73B orange wire nut rated for 600V/5A; or local equivalent. There is no polarity on Light Tape®.

## Type X Connection

The Smart Driver™ Power Supplies, depending on reference, may come with two types of adapters and/or cables to connect to power outlet. In case of damage of cable, this can be easily replaced by user, however the connector or adapter can only be supplied by manufacturer. **To request spares or technical service, please contact: [thelighttapeteam@lighttape.com](mailto:thelighttapeteam@lighttape.com) in U.S.A. and rest of the world or : [ventas@lighttape.com.co](mailto:ventas@lighttape.com.co) for Colombia and South America.** Please make sure to always include on your request the reference of the Smart Driver™ and/or adapter cable.



## For Type Y Attachments:

If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or their service agent or similar qualified person in order to avoid a hazard.

## For Non-Replaceable Light Source (Light Tape®)

The light source of this luminaire is not replaceable. When the light source reaches its end of life, the whole luminaire shall be replaced.

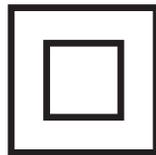
We have a team ready to assist at [thelighttapeteam@lighttape.com](mailto:thelighttapeteam@lighttape.com) or +1.804.355.1692



**THIS PRODUCT  
CANNOT BE USED ON  
INSTALLATIONS OR  
FLAMMABLE  
SURFACES**



**RISK OF  
ELECTRIC SHOCK**



**CLASS II**



**AC CURRENT**

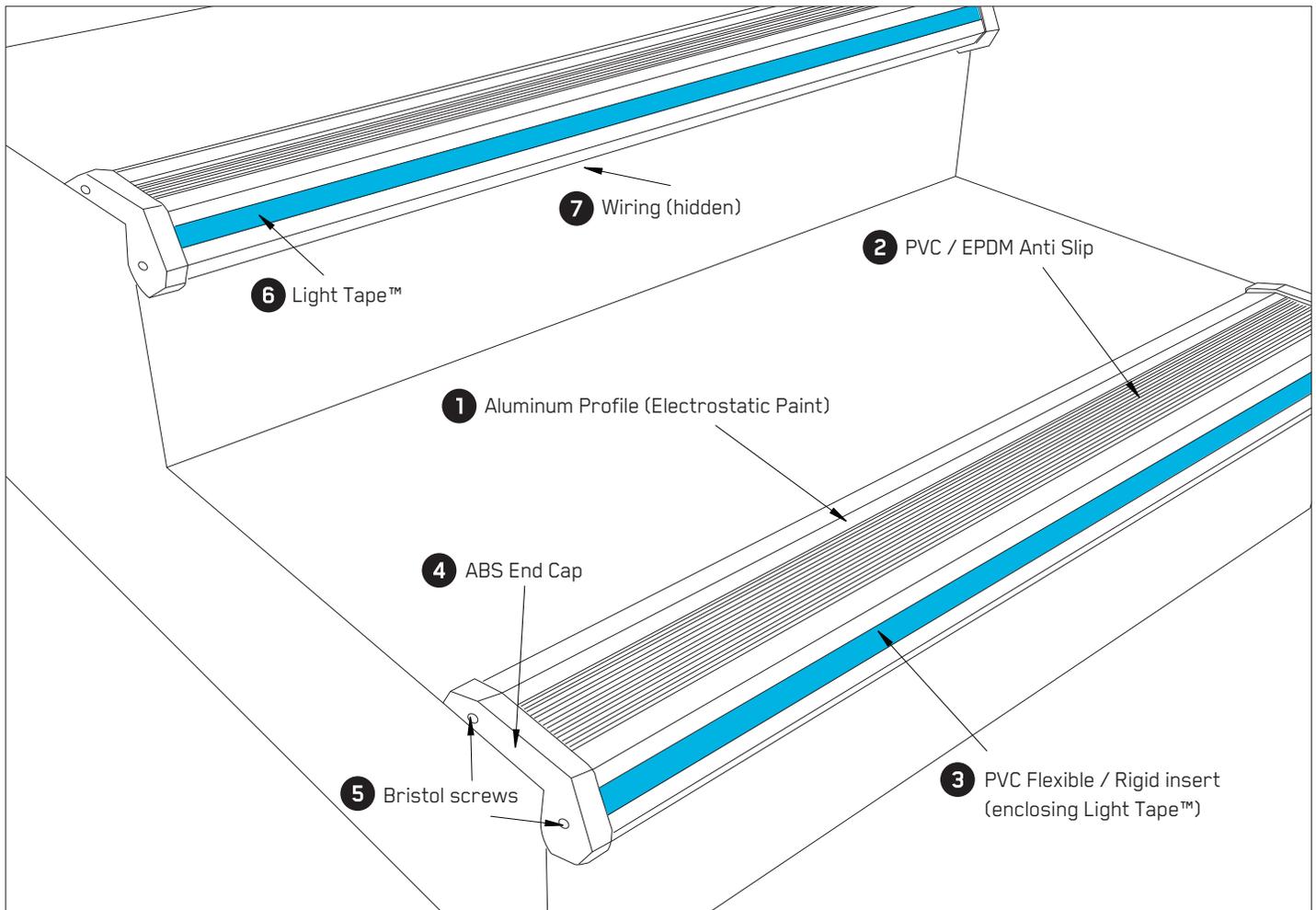


**INDOOR USE ONLY**

**Follow all Electrical Codes  
when installing and wiring**

## StepGuard Cleaning & Maintenance Information

For external parts of StepGuard™ fixtures



### Preventive Maintenance

A visual inspection of the system should be performed regularly. Depending on use but at least once a week the maintenance and/or cleaning personnel should be able to identify that all parts are in place and working properly to run a safe system.

- 1 Aluminum Profiles**  
Going down or upstairs will help to make sure all profiles are securely fixed on place. They should not move when stepping on them.
- 2 PVC / EPDM Anti-slip**  
Anti-slip should be free of grease and fitted flat on its cavity from end to end.
- 3 PVC Flexible / Rigid insert**  
The insert encapsulates the Light Tape™, therefore should be free of cuts or abrasions. No elements should obscure light.

## StepGuard Cleaning & Maintenance Information

For external parts of StepGuard™ fixtures

- 4 ABS End Caps**  
All end caps must be properly secured to profiles with the screws. Missing, loose or broken end caps should be replaced immediately.
- 5 Bristol Screws (on end caps)**  
Both screws should be secured on each end cap. Missing screws or with signs of rust should be replaced immediately.
- 6 Light Tape™**  
Make sure Light Tape™ lights evenly on its entire length. Lights should not twinkle or blink while on. Light Tape™ should be replaced if signs of humidity, or stains are shown. Please contact Technical Department for more information.
- 7 Wiring**  
Inspect that no wires are hanging below fixture. All wiring should be hidden and secure underneath the extrusion.

## General Cleaning

A regular cleaning should be performed to prevent the build up of dirt and grease, which could compromise the anti-slip properties and the general appearance of the fixture.

Avoid the use of cleaners containing hydrocarbons, bleach or citrus based agents to clean the StepGuard™ fixtures. You should also avoid the use of steam cleaners, power washers or floor sealants to clean the inserts or end caps.

### FOR DAILY CLEANING

Brush down the entire fixture using a soft bristled brush and clean the insert and anti-slip using a damp cloth. Do not soak around the caps or connection or wiring areas.

### Aluminum profiles

If heavier marks or sticky stains are seen, clean them using a damp cloth with aluminium safe detergent. Light surface scratches on paint can be removed using a fine wire wool and buffed with a soft cloth. Make sure as much water or cleaning solution is removed as possible.

### ABS End Caps / PVC Clear inserts

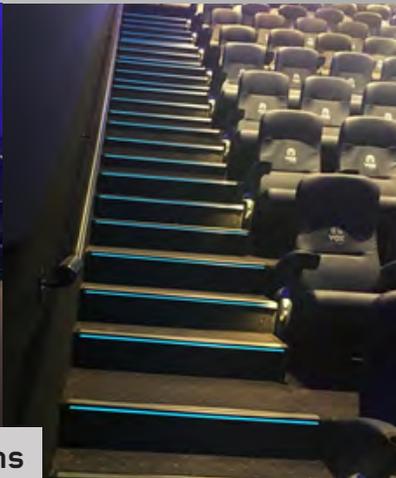
Only soap and water should be used during ABS cleaning as the use of other chemicals such as chlorides, ketones and degreasers accelerates aging and give them a yellowish color. The cleaning should be done with with a soft cloth or paper. Allow the system to be completely dry.

If you have any doubts or questions regarding product maintenance, please contact our Technical Department at:

### Electro-LuminX Lighting Corporation

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Richmond, Virginia 23230	+44.7860.967410 GMT
	thelighttapeteam@lighttape.com

PROJECT HIGHLIGHTS  
**Vox Cinemas**



The Avenues Mall - Kuwait City - 17 Auditoriums



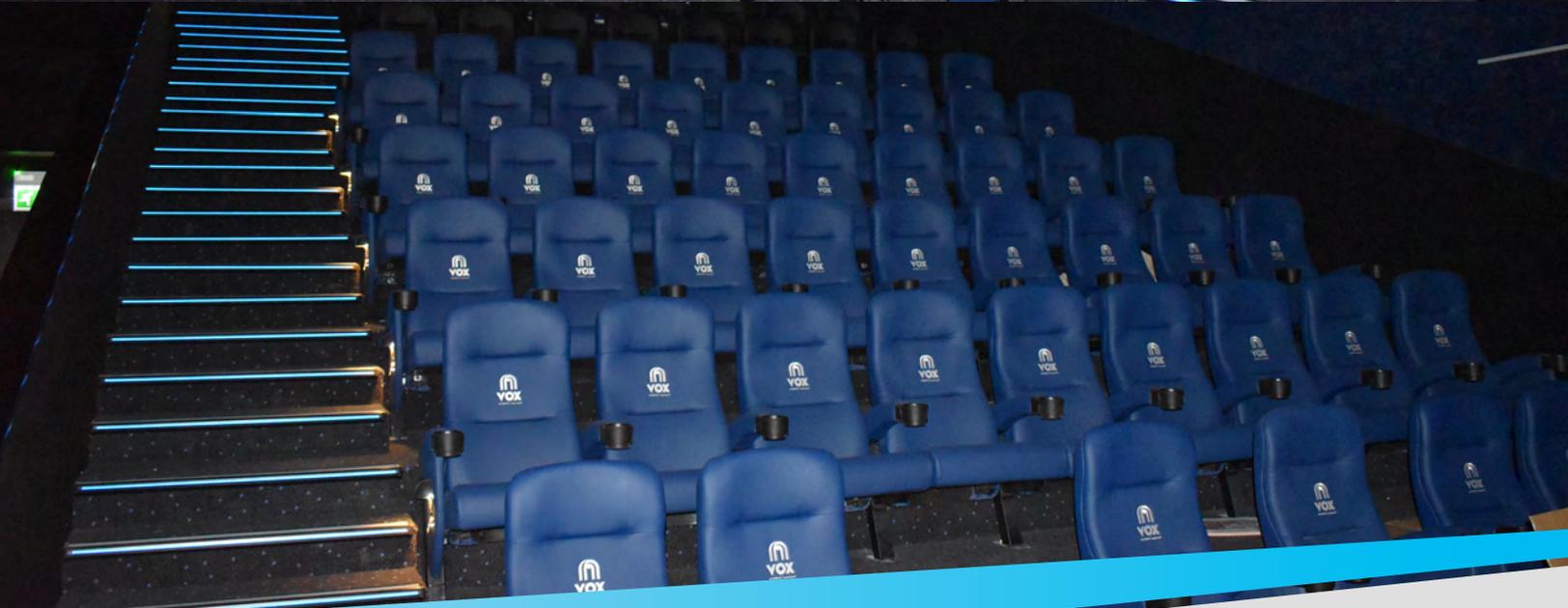
Al Jimi Mall - Abu Dhabi, UAE - 8 Auditoriums



Avenues Mall - Manama, Bahrain - 10 auditoriums



Muscat Grand Mall - Oman - 5 auditoriums



PROJECT HIGHLIGHTS  
**Colombia Cinemas**



**Cinelandia Multiplex - Centro Comercial El Puente, San Gil, Santander - 6 Cinemas**



**Cineland - Centro Comercial Mayales, Valledupar - 7 Cinemas**

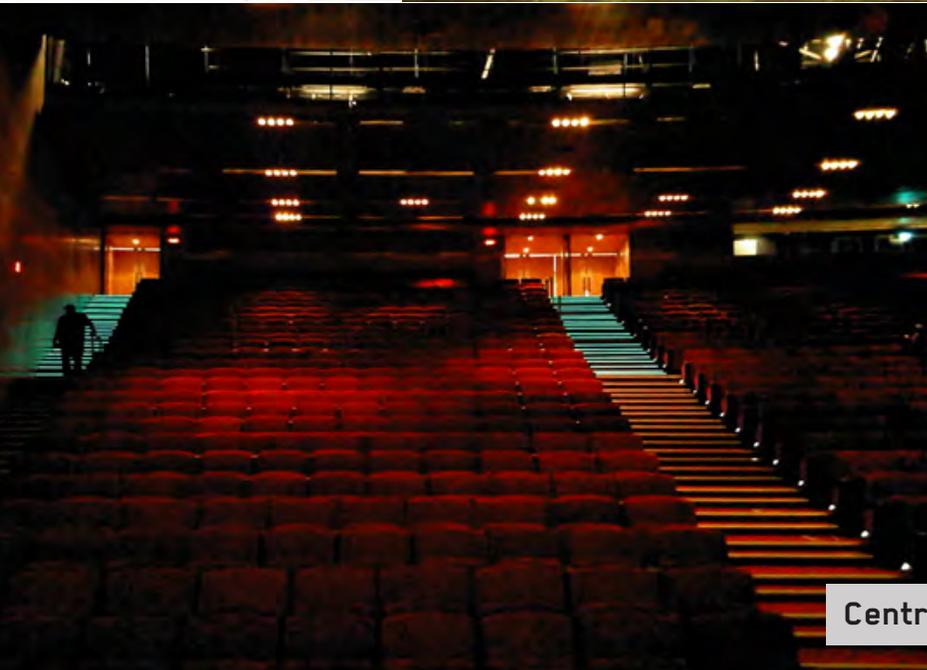
PROJECT HIGHLIGHTS  
**Global projects**



**Congress Theatre -  
Istanbul, Turkey**



**Pontificia University Javeriana - Cali, Colombia**



**Cape Town Conference Center, Cape Town, South Africa**



**Centro Cultural de Tenjo - Cundinamarca, Colombia**



**IMAX Dome Theater, Richmond, Virginia**

**Additional Projects Installed or Specified:**

Novo Cinemas at SEEF Mall, Muharaq District, Bahrain  
Art Vision for Boulevard 57, Lahore, Pakistan  
IMAX Theater at the Smithsonian's National Air and Space Museum,  
Washington, DC  
Centennial Planetarium, Calgary, AB, Canada  
CenterStage, Richmond, VA  
University of Ljubljana, Slovenia  
Boujis Night Club, London, UK

Investors Bank Performing Arts Center, Sewell, New Jersey  
Cineco JV/Vox, Manama City Center, Bahrain  
Vox Cinemas, Al Qasr Mall and Roof Mall Areic, Riyadh, Kingdom of  
Saudi Arabia  
Vox Cinemas, Sohar Mall, Sohar City, Oman  
Vox Cinemas, Red Sea Mall, Jeddah, Kingdom of Saudi Arabia



**StepGuard**<sup>®</sup>  
Advanced EL Lighting System.

designed for  
**LightTape**



**Electro-Luminix Lighting Corporation**

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Richmond, Virginia 23230

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