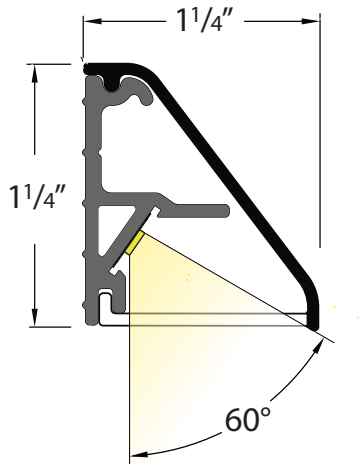




Profile Dimensions



Please verify the contents of the packages!

Please read instructions entirely before starting installation.

Be sure power is turned off before installing or modifying the system.

Call Tivoli, LLC tech support with questions.

Caution: Fantasma™ Continuous Wall System is designed to work with listed **Class 2 12V DC transformers only**. Use of any other power source will cause damage, shorten the life of the fixture and void the warranty.

Consult any and all applicable local and national codes for installation.

Do not conceal or extend exposed conductors through a building wall as per local electrical code.

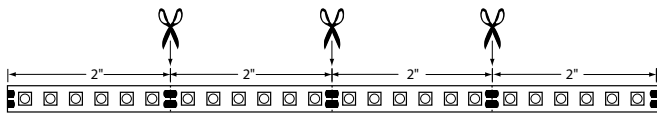
Warning: With any luminaire for any application, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injuries. This fixture should be installed by a certified professional.



Installation Overview

Preliminary

Fantasma™ Continuous Wall Light is delivered unassembled. The product is to be assembled at the installation location. Fantasma™ Wall Light System is available in 8' lengths and may be cut to size in the field. Trim Base and Lens to fit location. Tivotape™ LB may be cut off at the designated cut increments.

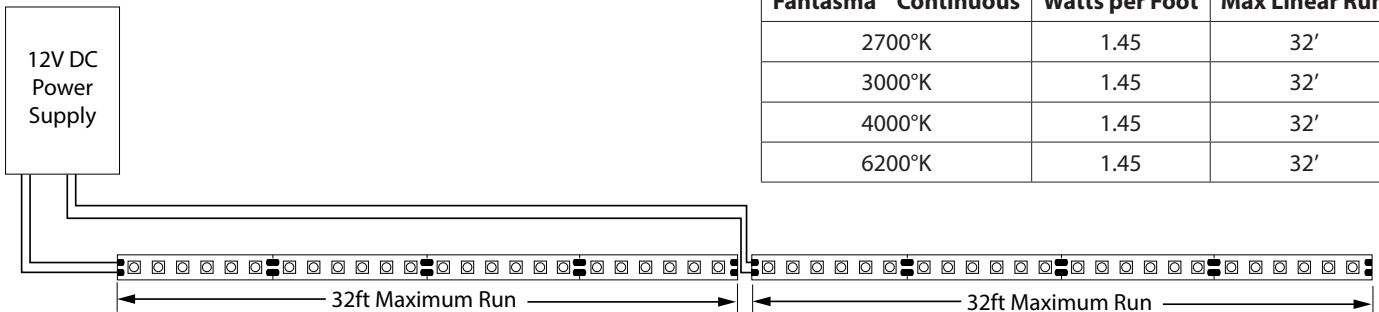


Bullet Connectors are provided to re-connect Lead Wires that have been cut off in the field. To cover corners and gaps between fixtures, see Joiner Cover options on page 5. Conduit and junction boxes should already be in place in wall before installing Fantasma™ Wall Lighting System. See Wiring options on Page 4.

Important: Become familiar with the spacing requirements for each type of Joiner Cover before starting installation. See Spacing Requirements section for detailed information (Page 2).

Maximum Run Length:

Maximum Run Length is 32 feet. Run lengths longer than 32 feet need to be wired to a separate circuit from the Power Supply.



Installation Summary

- | | | |
|----|--|---------|
| 1 | Cut any Base and Lens sections that need to be trimmed to fit the space. | Page 2 |
| 2 | Drill 3/16" mounting holes and a 5/16" Lead Hole. | Page 2 |
| 3 | Install all Base Sections. | Page 2 |
| 4 | Cut Tivotape™ to fit any sections that were cut to size. | Page 4 |
| 5 | Install Tivotape.™ | Page 4 |
| 6 | Cut notch in Base at each end of Tivotape™ to create a pathway for the Lead Wires. | Page 5 |
| 7 | Wire the system. Make connection to power Supply and interconnect Tivotape™ segments to the maximum run length. Every new run length must be wired back to the Power Supply and connected to a separate circuit. | Page 6 |
| 8 | Install Lens Sections | Page 8 |
| 9 | Install Joiner Covers | Page 8 |
| 10 | Tivotape™ Replacement | Page 10 |

Product Specification Guide

Fantasma™ Continuous	Watts per Foot	Max Linear Run
2700°K	1.45	32'
3000°K	1.45	32'
4000°K	1.45	32'
6200°K	1.45	32'

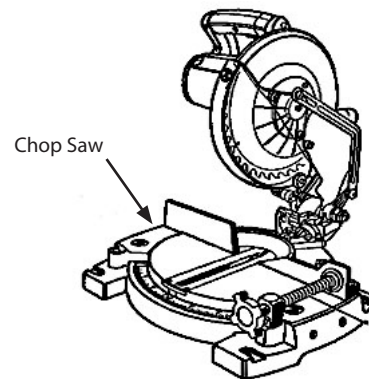
Installation Instructions: Installing Fantasma Base

Installing the Base Sections

Note: All Base Sections should be installed before proceeding to Tivotape™ installation.

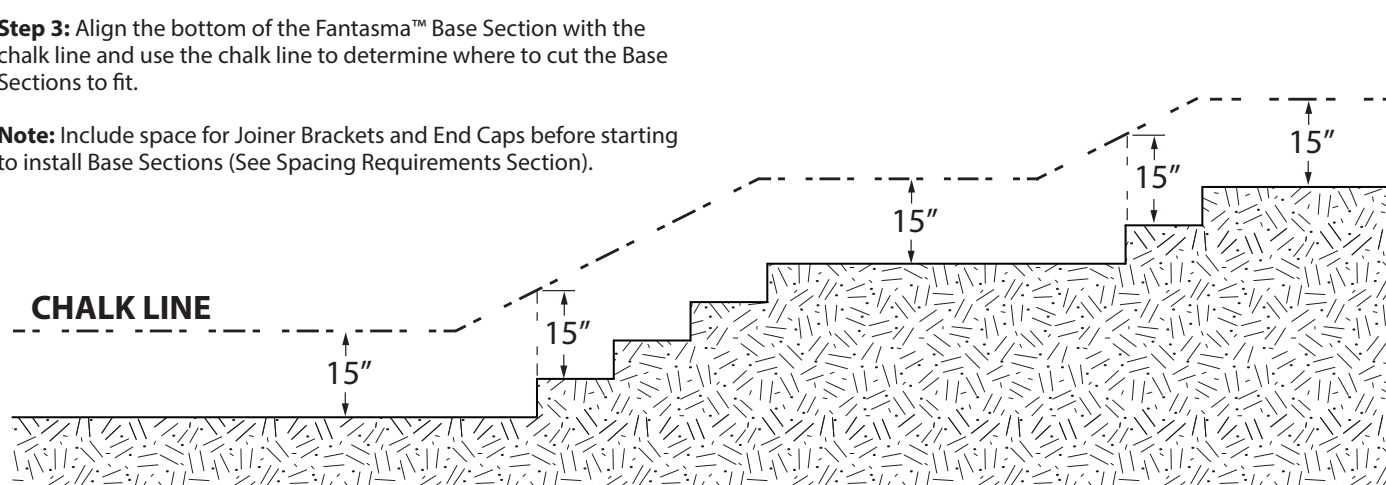
Step 1: Fantasma™ Base should be installed a minimum of 15" above floor. A 15" height will result in a field of illumination .2 foot candles 4 feet from wall. Begin by snapping a chalk line along the wall using the dimensions shown in the diagram below.

Step 2: Determine if any 8 ft base sections will need to be cut down to fit the space. Cut Base and Lens sections to matching lengths using a chop saw.



Step 3: Align the bottom of the Fantasma™ Base Section with the chalk line and use the chalk line to determine where to cut the Base Sections to fit.

Note: Include space for Joiner Brackets and End Caps before starting to install Base Sections (See Spacing Requirements Section).



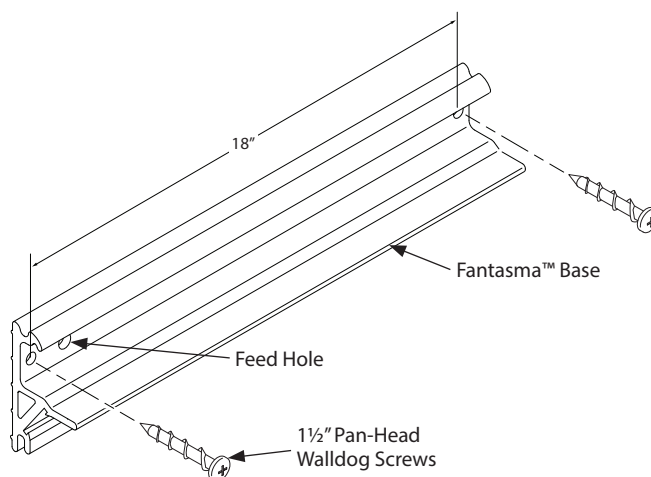
Step 4: Pre-drill $\frac{3}{16}$ " DIA. holes through Fantasma™ Base approximately every 18" OC for mounting.

Step 5: Drill $\frac{5}{16}$ " feed hole at start of run to route lead wire through wall, as shown. Hole must align with conduit already located in wall.

Step 6: Secure Base to wall with $1\frac{1}{2}$ " Pan-Head Walldog fasteners (provided).

Note: Occasionally, a mounting surface will require metal screws. Self-Drilling Metal Screws are available from Tivoli® as an option. Request Part Number **TM-2-3/8**.

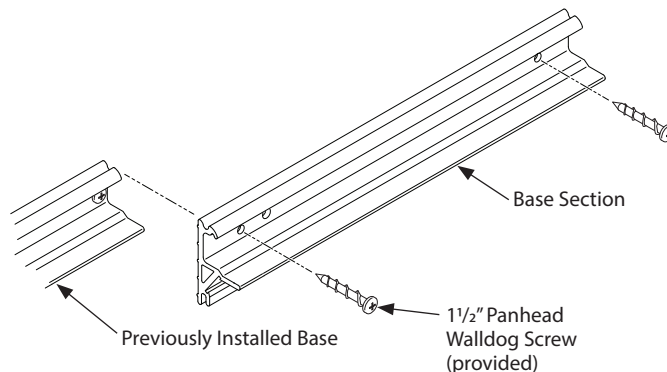
Caution: When attaching base to wall, do not overtighten screws.



Spacing Requirements for Multiple Base Section Installation

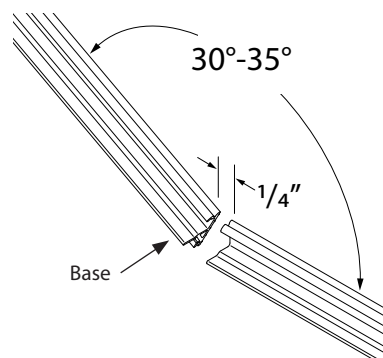
Inline Base Position

Step 1: To install multiple Base Sections in a line, butt each section against the end of the previous section.



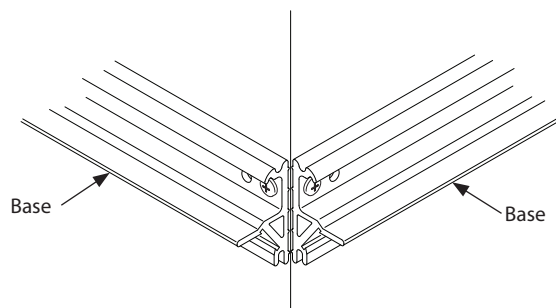
Upward Angle Base Position

Step 2: Install upward angled Base Sections along stairways. Base Sections may be positioned at a 30°-35° angle to accommodate the Angled Joiner Covers. Leave a 1/4" gap between the top edge of Base Section and the top edge of the previously installed Base.



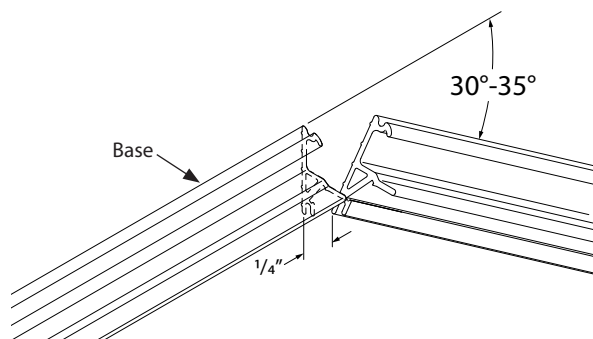
Outside Corner Position

Step 3: When two channels meet at an outside corner, use Outside Corner Covers to conceal the gap between sections. Position each Base along the edge of the corner. No additional gap is necessary to use this cover.



Downward Angle Base Position

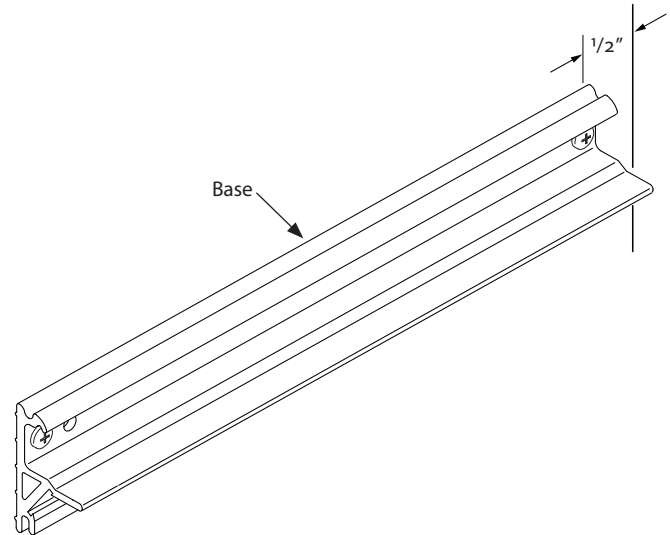
Step 4: Install downward angled Base Sections at a 30-35 angle to accommodate the downward joiner Covers. Leave a 1/4" gap between the lower edge of both base sections.



Spacing Requirements for Multiple Base Section Installation (Continued)

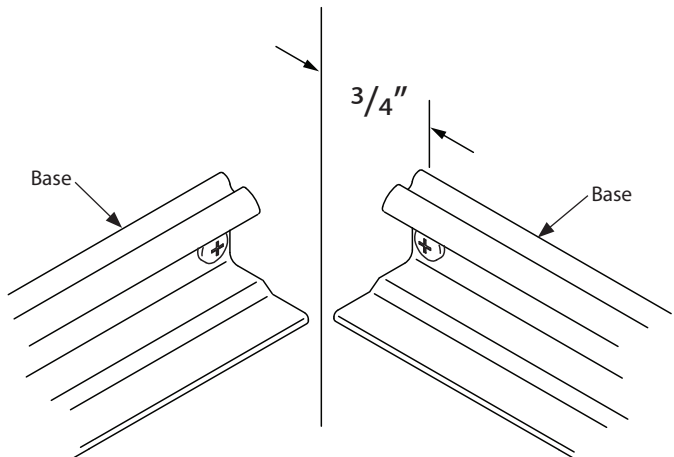
End Cap Position

Step 5: If the project calls for End Caps at the ends of the run, leave a 1/2" space at the end of the run to provide space for the End Cap.



Inside Corner Position

Step 6: When two channels meet at an inside corner, use an Inside Corner Cover to fill the gap between sections. Leave a 3/4" space from the end of each channel to the inside corner to make room for the Inside Corner Bracket.

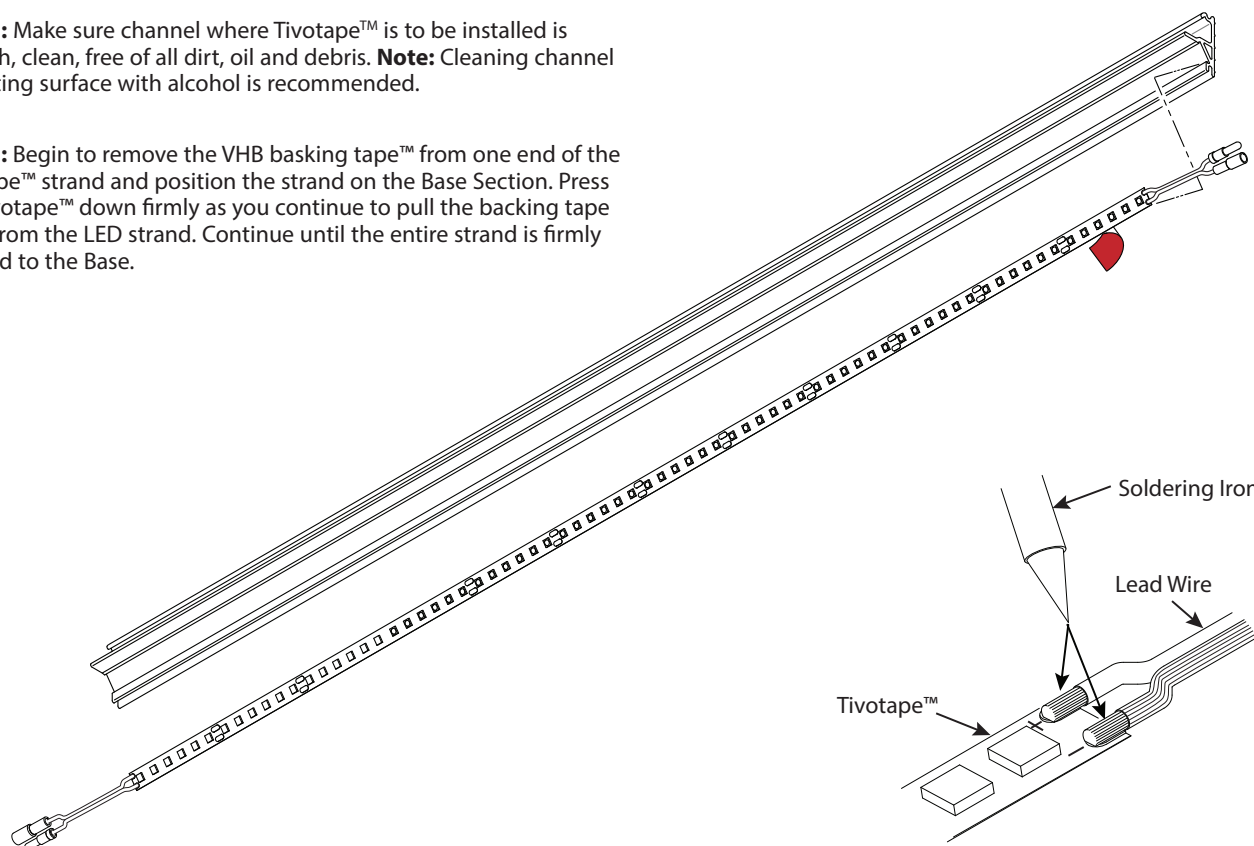


Installation Instructions: Install Tivotape™

Step 1: Tivotape is supplied in 8 foot sections with short leads and Barrel Connectors attached at each end. Determine mounting location for each piece of Tivotape™. Refer to instructions below regarding field cutting Tivotape™.

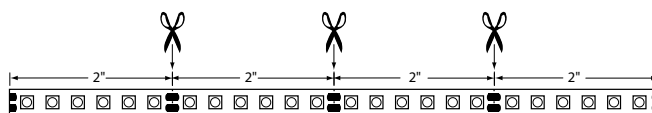
Step 2: Make sure channel where Tivotape™ is to be installed is smooth, clean, free of all dirt, oil and debris. **Note:** Cleaning channel mounting surface with alcohol is recommended.

Step 3: Begin to remove the VHB backing tape™ from one end of the Tivotape™ strand and position the strand on the Base Section. Press the Tivotape™ down firmly as you continue to pull the backing tape away from the LED strand. Continue until the entire strand is firmly secured to the Base.



Field Cutting To Fit Mounting Location

If the Fantasma™ Base and Lens has been cut down in the field to fit the mounting location, then the Tivotape must also be cut to fit the Base. Trim only at the designated cutoff locations.



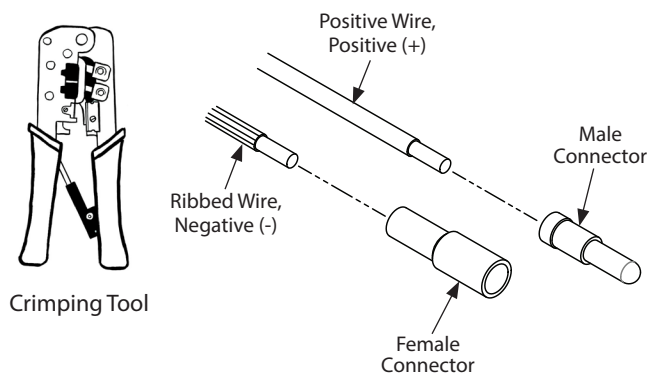
Attach Lead Wire

Step 4: New lead wire will need to be attached to the Tivotape after it has been cut.

Step 5: Select a piece of 18ga lead wire and solder it to the pads on the end of the Tivotape™. Position the wire so the Ribbed side is soldered to the negative pad and the smooth wire is soldered to the positive pad.

Step 6: Trim the wire to 3" in length.

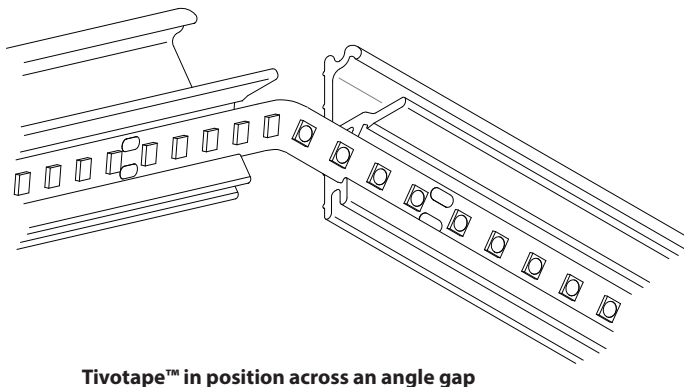
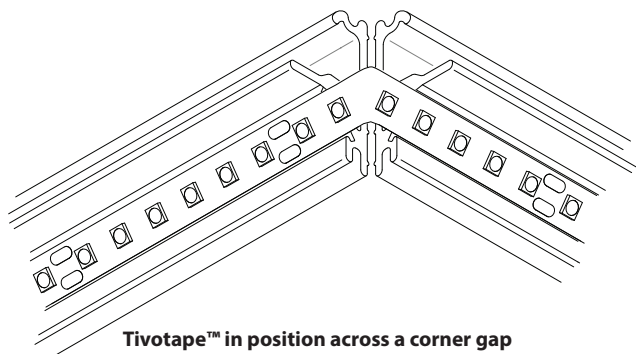
Step 7: Using a Crimping Tool, crimp a new connector onto the end of each new wire to allow connection to the next Tivotape™ Section, taking care to install a connector of the same type, male or female, as the one that was previously removed. Extra Bullet-type connectors are included in kit.



Installation Instructions: Install Tivotape™ (Continued)

Installing Tivotape over Gaps and Corners.

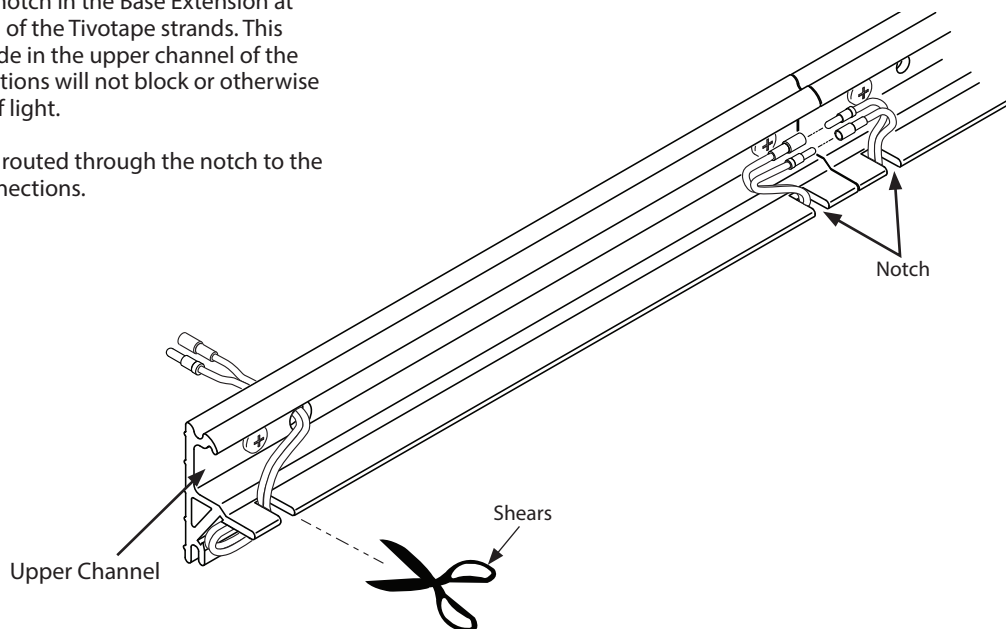
There are sometimes gaps between Base Channel segments to allow space for the the Joiner Covers. There is no need to cut the Tivotape™ at those places. Just run the Tivotape™ strand over the gap and continue to secure to the next Base Channel, as shown in the following examples. The Joiner Covers will hide any irregularities that result from bending the Tivotape™.



Installation Instructions: Prepare Base Channel for Wiring

Step 1: Use Cutting Shears to cut a notch in the Base Extension at the Lead Wire Locations at each end of the Tivotape strands. This will allow the connections to be made in the upper channel of the Base units, this way the wire connections will not block or otherwise interfere with the even dispersion of light.

Step 2: The Lead Wires may now be routed through the notch to the upper channel to complete the connections.





Wiring the System

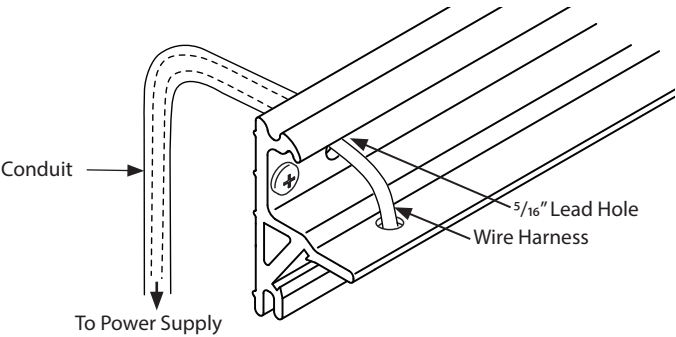
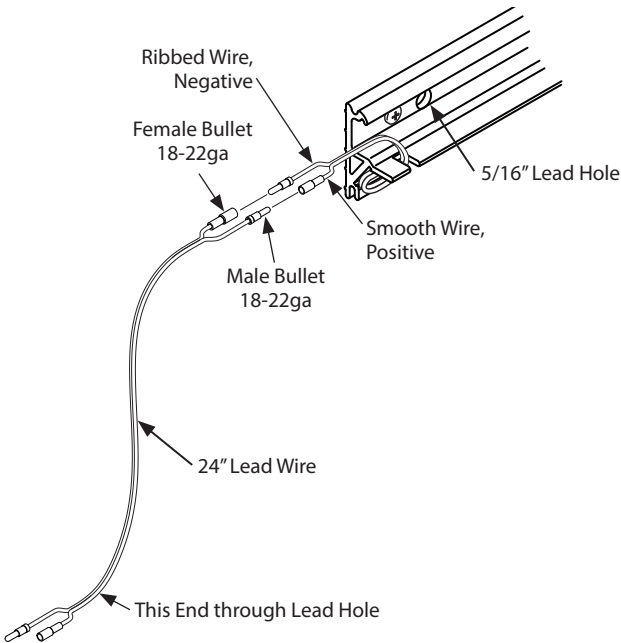
Overview

The Fantasma™ Wall Continuous unit is supplied with male and female Bullet Connectors attached at wire ends to facilitate interconnection of fixtures. Connect multiple fixtures by joining male and female Bullet connectors together. Attach lead wires from Light Engine to power cables using mating male and female Bullet Connectors (18-22ga). Alternatively, the connectors may be cut off to allow the wires to be joined together using wire nuts (by others). Maintain polarity by following the positive and negative identification labels on each wire. The smooth wire is Positive (+) and the ribbed wire is negative (-). The available 24" jumper wire may be used to connect the fixture to the power supply. The jumper wire may be cut in half to provide two 12" Jumper Wires with Bullet Connectors at one end.

Step 1: Drill a 5/16" hole through the base near the lead end of the Fantasma™ Base to align with the end of the conduit, which should already be located in the wall (See Page 1).

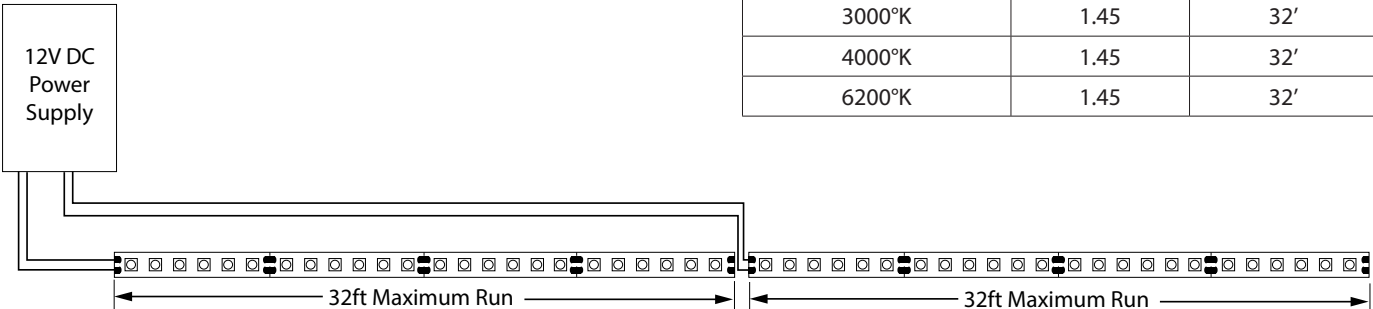
⚠ WARNING! Danger of Electrical Shock. Be sure power is turned off before proceeding.

Step 2: Run wire to Junction Box and make connections using compatible Bullet Connectors or Wire Nuts. See Page 7 for wiring options.



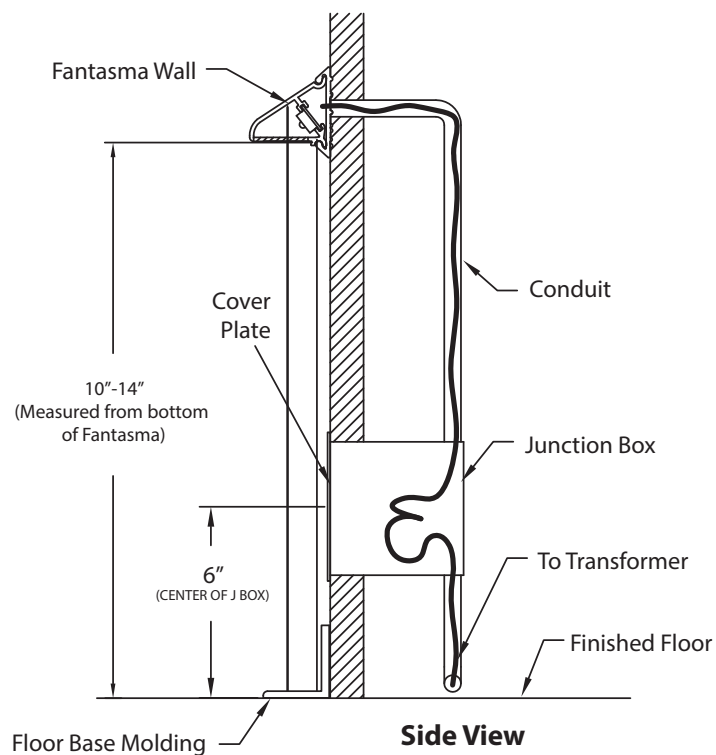
Maximum Run Length:

Maximum Run Length is 32 feet. Run lengths longer than 32 feet need to be wired to a separate circuit from the Power Supply.

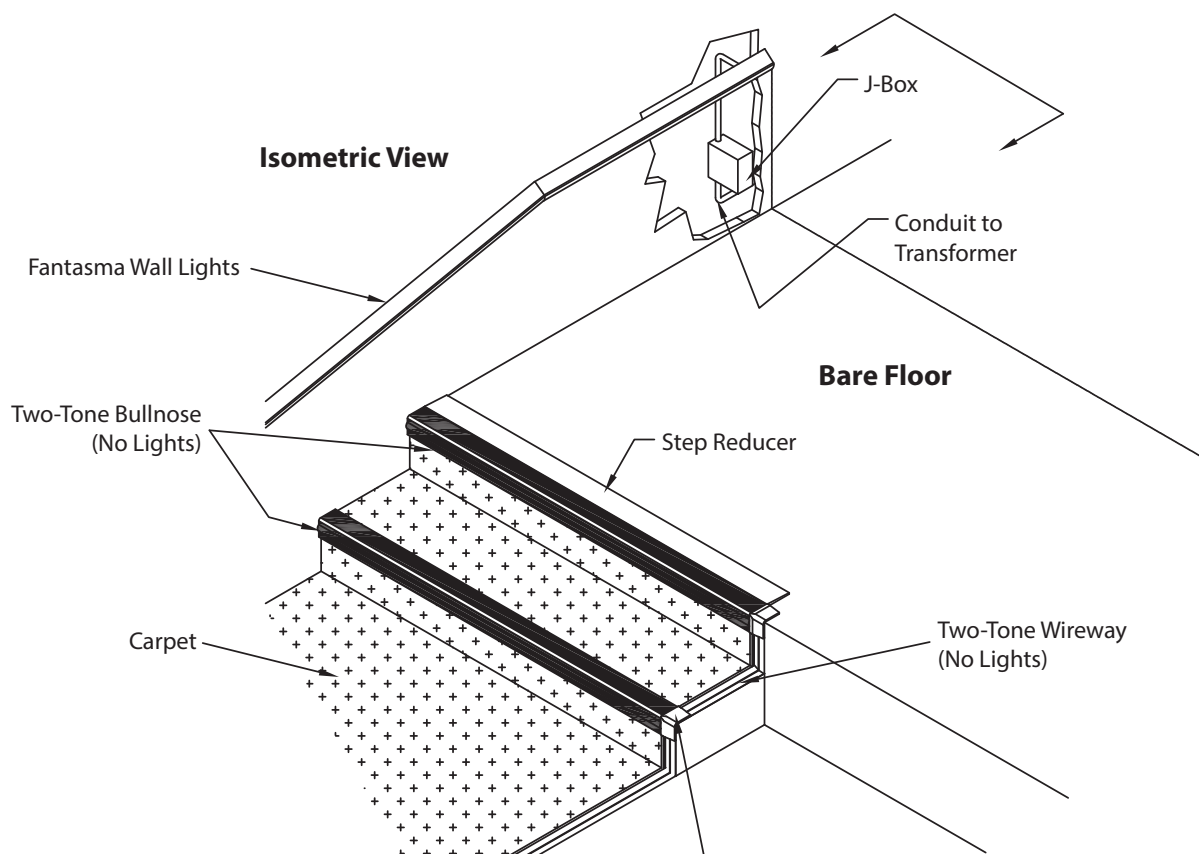


Product Specification Guide		
Fantasma™ Continuous	Watts per Foot	Max Linear Run
2700°K	1.45	32'
3000°K	1.45	32'
4000°K	1.45	32'
6200°K	1.45	32'

Wiring Options



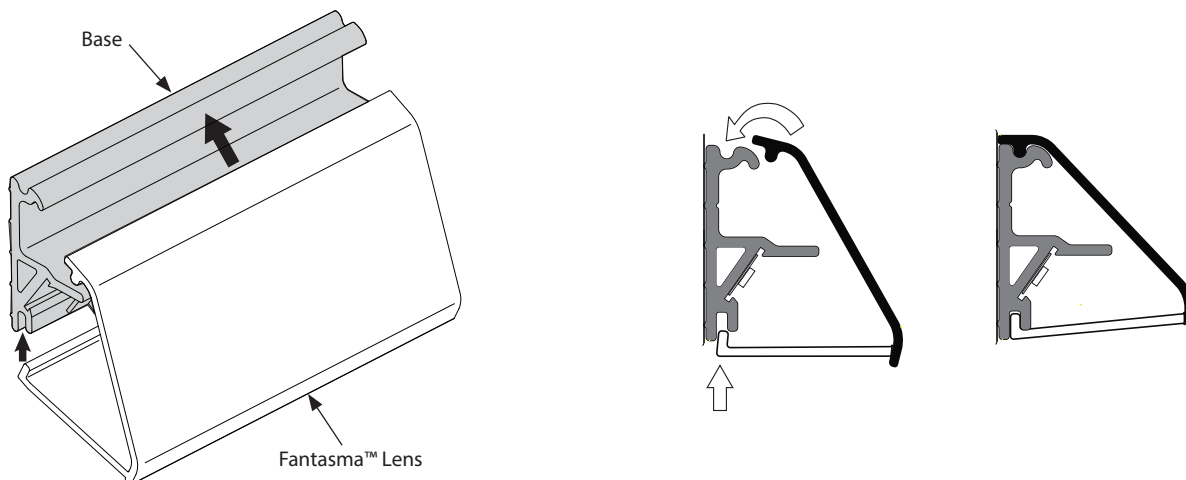
Fantasma Wall Lights and J-Box Mounting Height



Install Fantasma™ Lens

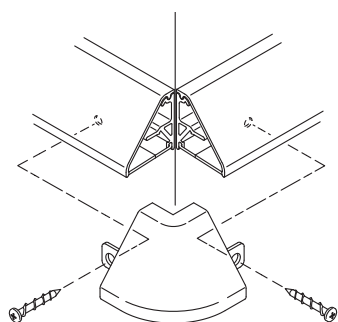
Step 1: Insert raised Tab at lower edge of Lens into slot at bottom of Fantasma™ Base.

Step 2: Rotate Lens upward until it snaps over the ridge at the top of the Base.

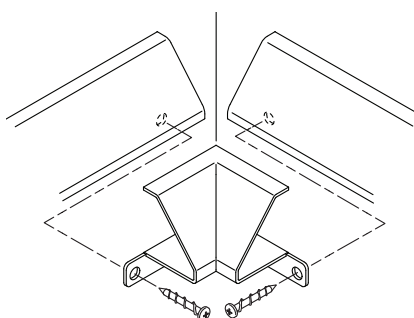


Using Fantasma™ Joiner Covers and End Caps

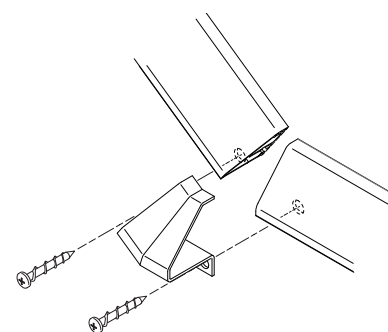
Fantasma™ Joiner Covers hide the gap between fixtures where they meet at corners or angles. Install Fantasma™ Wall fixtures first and place Joiner Covers over the gaps, as shown. Secure to wall with 1½" Walldog Fasteners (provided).



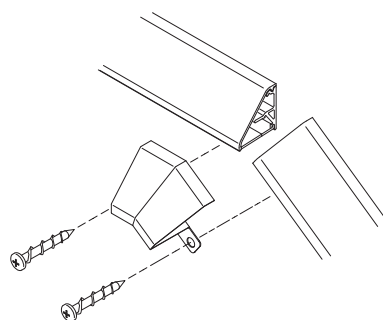
Outside Corner Bracket



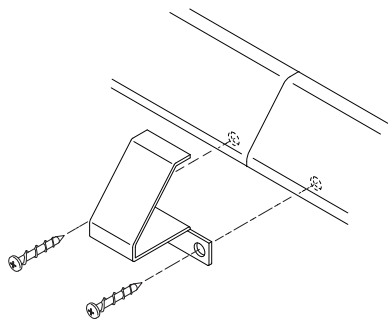
Inside Corner Bracket



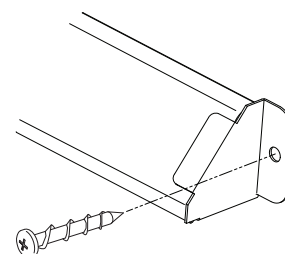
Upward Angle Joiner Bracket



Downward Angle Joiner Bracket



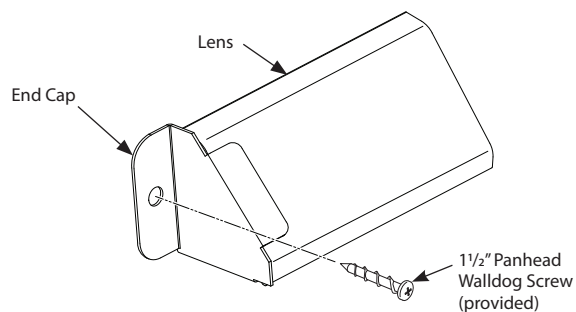
Straight Joiner Bracket



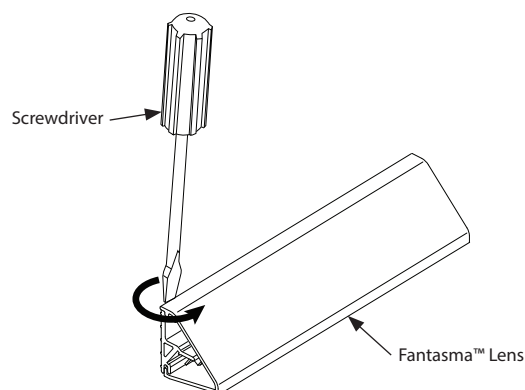
End Cap

Fantasma™ Lens Removal Procedure

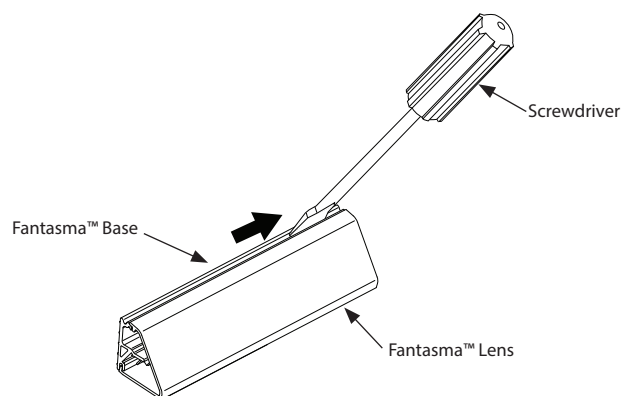
Step 1: Remove End Cap, if used.



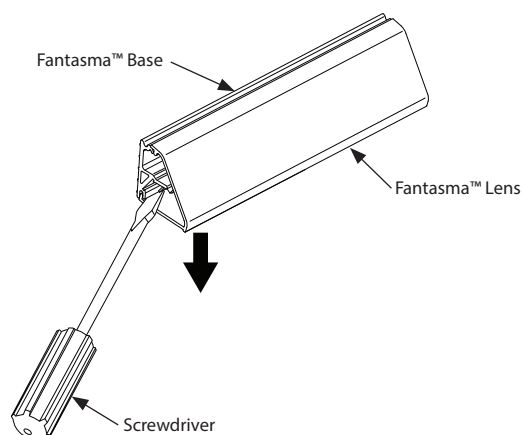
Step 2: Insert screwdriver blade behind Lens at one end of the Lens and twist screwdriver to pry end of lens away from the Base Channel. Use this method if the lens is at the end or in a middle position.



Step 3: Slide blade of screwdriver along top groove of channel to finish removing the top edge of the lens.

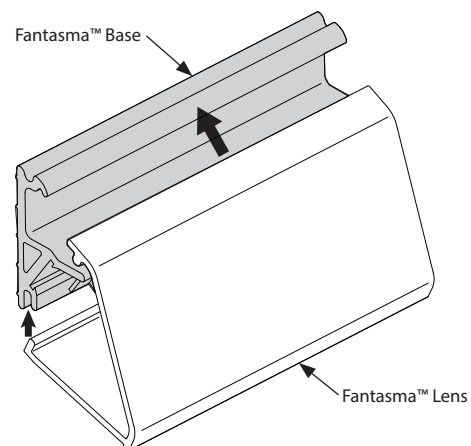


Step 4: Position the blade of the screwdriver between the bottom surface of the lens and the lower edge of the channel and pry in a downward motion. The Lens will pop off the lower groove of the Base Channel.

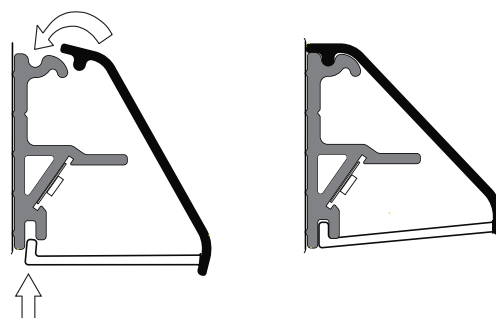


Replacing Fantasma™ Wall Lens

Step 1: Insert raised Tab at lower edge of Lens into slot at bottom of Fantasma™ Base.



Step 2: Rotate Lens upward until it snaps over the ridge at the top of the Base.



Replacing Tivotape™ Strand

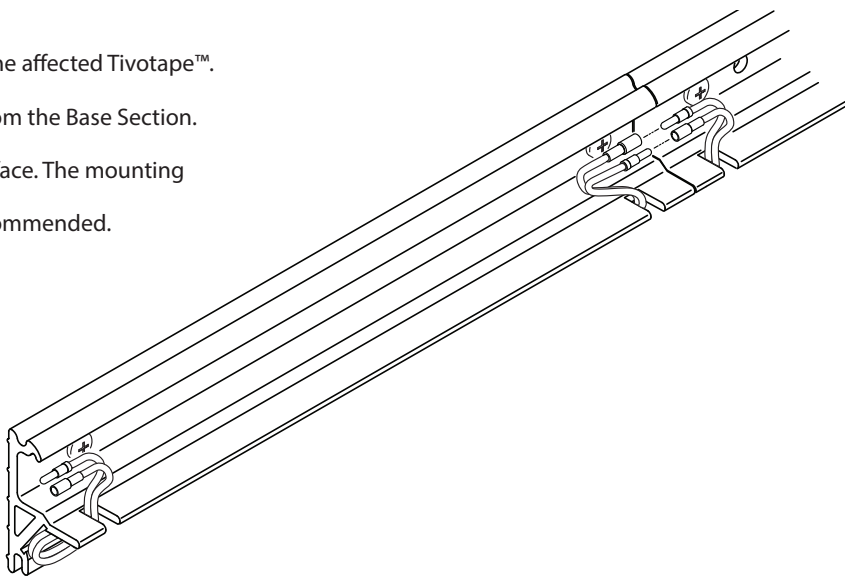
Step 1: Remove Lens (See Page 9)

Step 2: Disconnect Lead Connectors at both ends of the affected Tivotape™.

Step 3: Carefully pull the section of Tivotape away from the Base Section.

Step 4: Clean off all adhesive from the mounting surface. The mounting surface must be clean, free of all dirt, oil and debris.

Note: Cleaning mounting surface with alcohol is recommended.



Step 5: Determine mounting location for the replacement Tivotape. Refer to instructions regarding field cutting Tivotape™.

Step 6: Begin to remove the VHB tape backing from one end of the Tivotape strand and position the strand on the Base Section. Press the Tivotape™ down firmly as you continue to pull the backing tape away from the LED strand. Continue until the entire strand is firmly secured to the Base.

Step 7: Re-connect all lead wires and re-establish power to the system.

