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## Installation Instructions for **TruLine 1.6A 24VDC**



### IMPORTANT INFORMATION

- This fixture is wall or ceiling mount.
- This instruction shows a typical installation.
- **Consult the Configuration Notes on Pages 10 and 11 before beginning any installation.**
- This product is ETL listed for indoor use.

**SAVE THESE INSTRUCTIONS!**

### INSTALLATION VIDEO



Scan with your mobile device to watch a typical installation video or visit  
[www.PureEdgeLighting.com/pure/pure-videos/truline\\_1\\_6a\\_room\\_wrap/index.php](http://www.PureEdgeLighting.com/pure/pure-videos/truline_1_6a_room_wrap/index.php)

## Section One: Install the Remote Power Supply

**A**



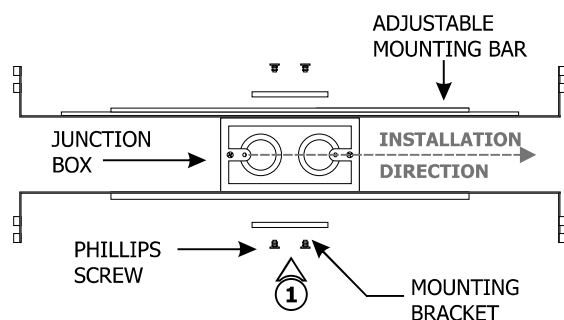
REMOTE POWER SUPPLY

**1:** Remote power supplies must be installed within 40ft of the junction box. Refer to the instructions and wiring diagram provided with the remote power supplies.

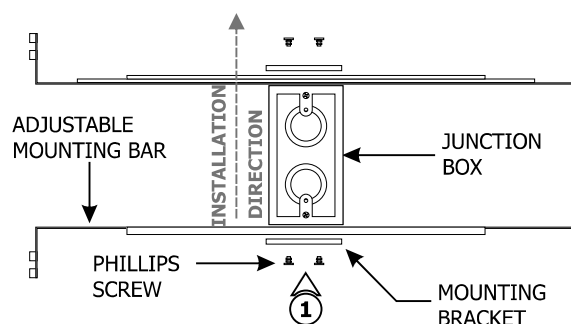
## Section Two: Install the Junction Box and Wires (Test Power to the LED Strip)

**B**

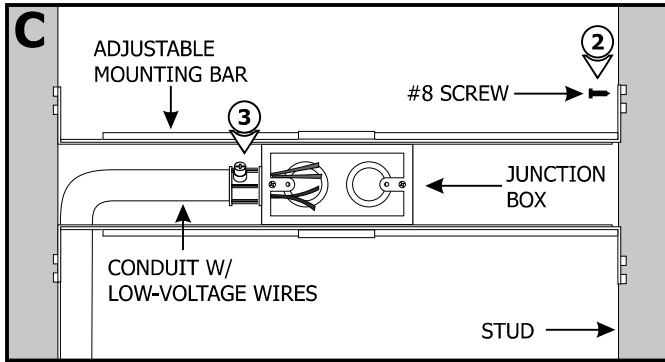
### HORIZONTAL ORIENTATION



### VERTICAL ORIENTATION



**1:** Mount each adjustable mounting bar to one side of the junction box and secure them with the mounting brackets and two Phillips screws provided.



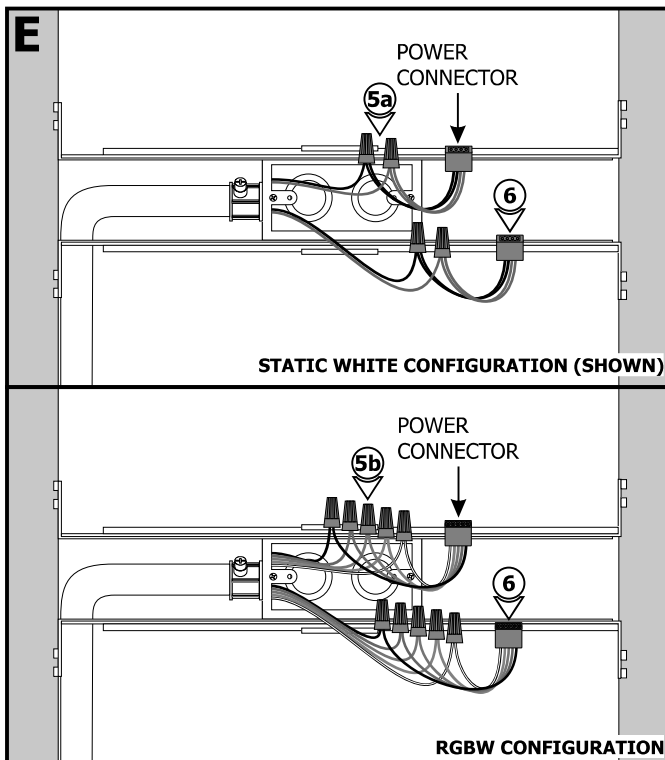
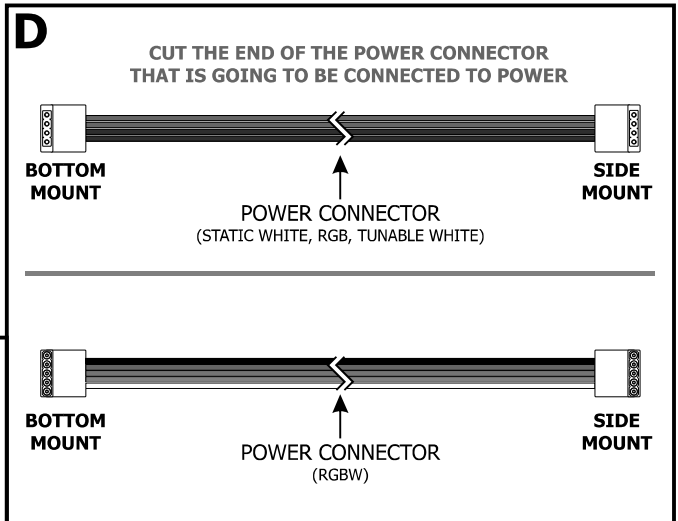
**NOTE:** The adjustable mounting bars mount to studs that are spaced 15" to 24" apart. If the span needs to be shorter than 15", then break the bar arms from dedicated lines.

**2:** Place the lips on the adjustable mounting bars against the studs. Secure the adjustable bars to the studs with the #8 screws.

**3:** Install conduit(s) (if required by local electrical code) and run the 24VDC low voltage wires coming from the power supply to the junction box. Refer to the instructions provided with the power supply.

**4:** Cut the end of the power connector that is going to be connected to power. Discard the unused connector. Strip the ends of the wires.

**NOTE:** If installation requires RGB, RGB+W, or Tunable White, refer to wiring diagrams on pages 12 and 13.



**NOTE:** Remote power supply wires must be present in junction box. Refer to instructions provided with power supply.

**NOTE:** Note the alignment of the +24VDC connection of the power connector to ensure proper alignment when installing the LED Strip in later steps.

**5a:** Connect the +24VDC low voltage wire of the power supply to the red wires of the power connector using a wire nut. Connect the -24VDC low voltage wire of the same power supply to the black wires of the connector using a wire nut.

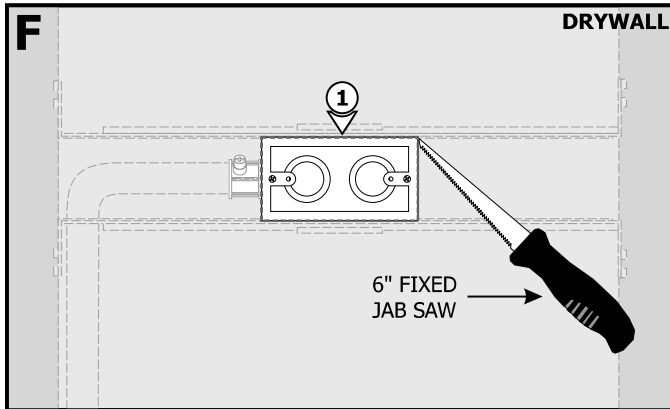
**5b:** For RGBW Configurations, connect the black, red, green, blue, and white wires of the DMX decoder respectively to the black, red, green, blue, and white wires of the power connector using wire nuts.

**6:** Repeat step 5 for the other connector and power supply.

**7:** Place all wire nut connections inside the junction box.

**CAUTION:** Unroll the entire LED strip from the reel and use the power connector to power the strip making sure there is no outage before continuing with the installation. Afterwards, carefully roll the LED strip loosely back into the reel.

## Section Three: Lay the Drywall and Cut the Drywall for the Channel



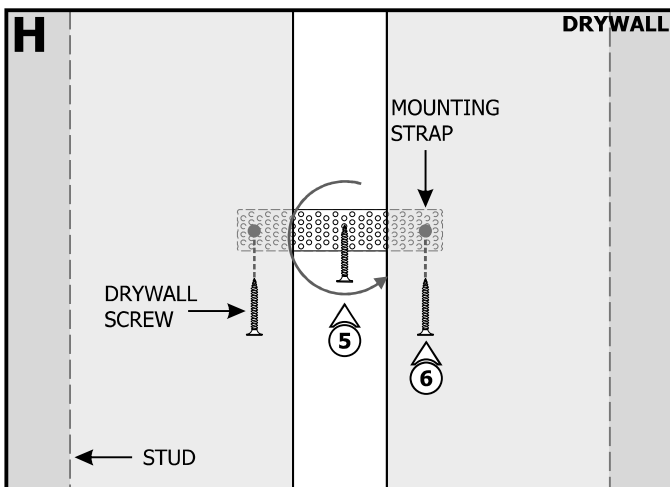
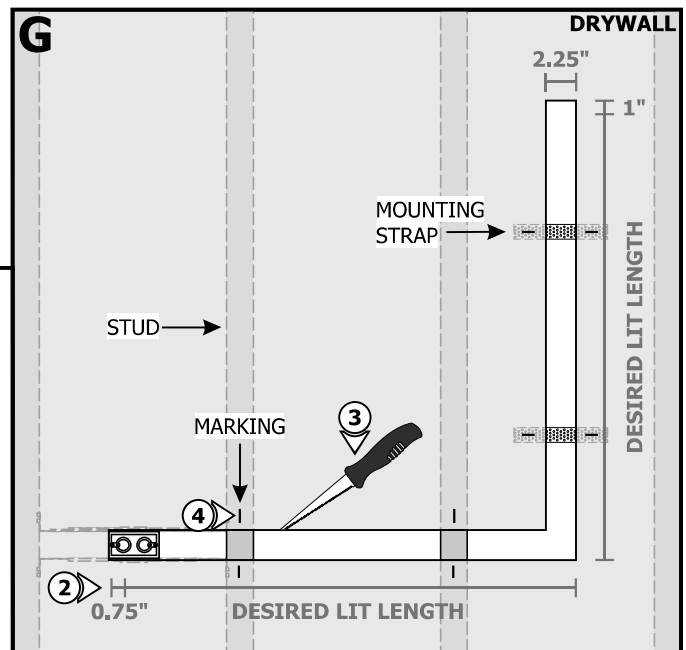
**1:** Cut a section of drywall using a 6" fixed jab saw or other appropriate tool to expose the mounting plate area. Install the drywall.

**NOTE:** Drywall must be installed first before installing the channel.

**2:** Determine the desired length of lit installation area and mark on the wall. The total installation length cut will need to be 1-3/4" longer than the desired lit installation area to account for the fixture end caps. (For example, a desired 48" lit area will require a drywall cut of 49-3/4"). Mark this length on the wall using the junction box mounting plate and a level as a guide (**MIN. 2.25"**).

**3:** Cut out the marked area using a "Dremel Multi-Max" or a 6" Fixed Jab Saw.

**4:** Mark the location of the studs to the drywall for future reference.

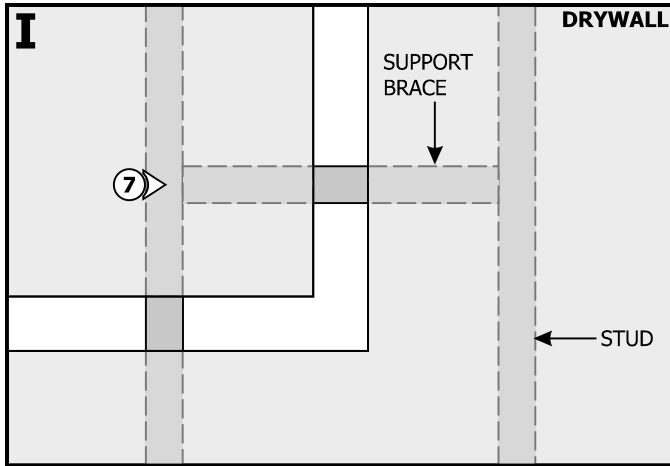


**NOTE:** To install channel in a wall without standard-spaced studs, install perforated mounting straps every 32" behind drywall and secure using two drywall screws. Mark the location of any mounting straps to the drywall (see steps below).

**NOTE:** For areas with lots of vibrations, it is suggest to install 2X4 support braces (suggested spacing is every 32") before installing and finishing drywall to avoid cracking of plaster. Refer to step 7.

**5:** Thread a drywall screw into the perforated material. Place the mounting strap behind the drywall and rotate into place using the drywall screw.

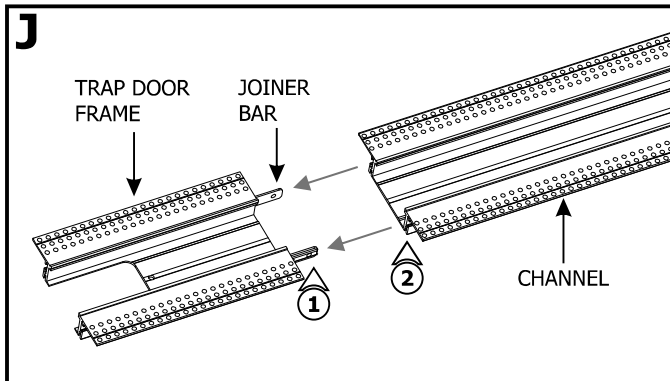
**6:** Secure the mounting strap to the drywall using two drywall screws. Mark the location of the mounting strap on the drywall.



**Alternate Installation Option:**

**7:** Install 2x4 support braces (suggested spacing is every 32") before installing and finishing drywall.

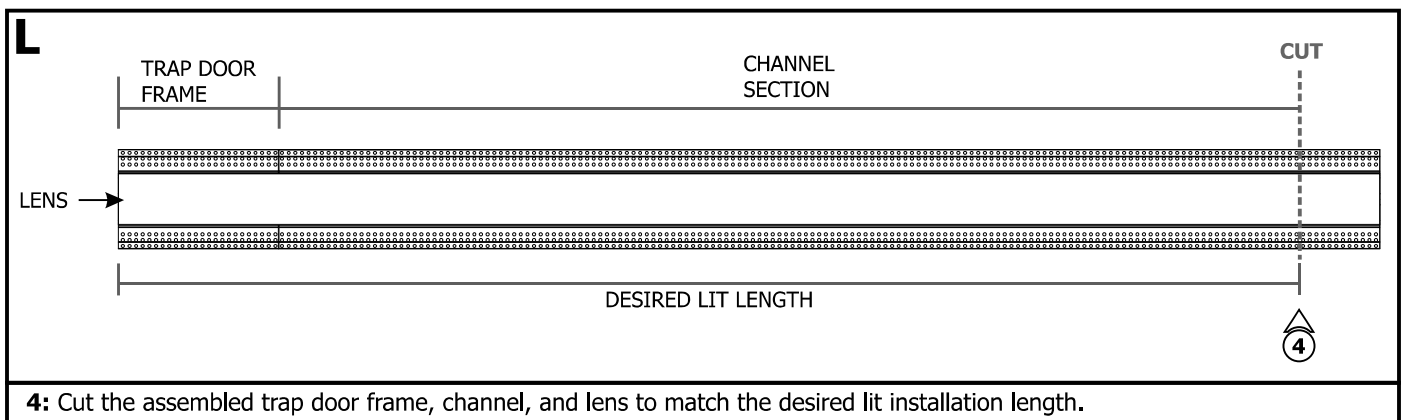
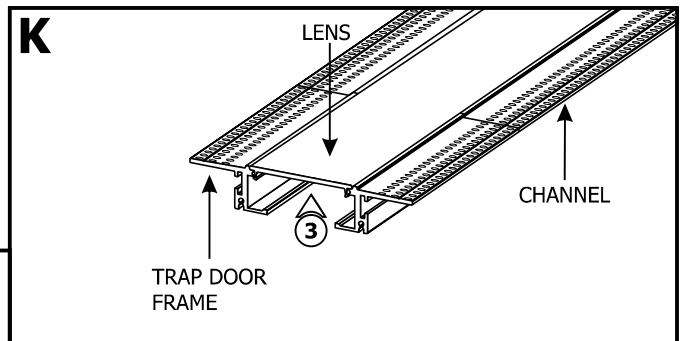
## Section Four: Install the Channel



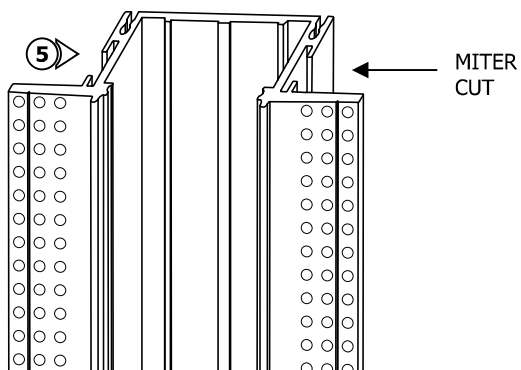
**1:** Insert the joiner bars halfway into the channel trap door frame. Tighten the two M3 set screws on each joiner bar using a 1.5mm Allen wrench.

**2:** Slide the other section of channel onto the joiner bars and tighten the remaining M3 set screws.

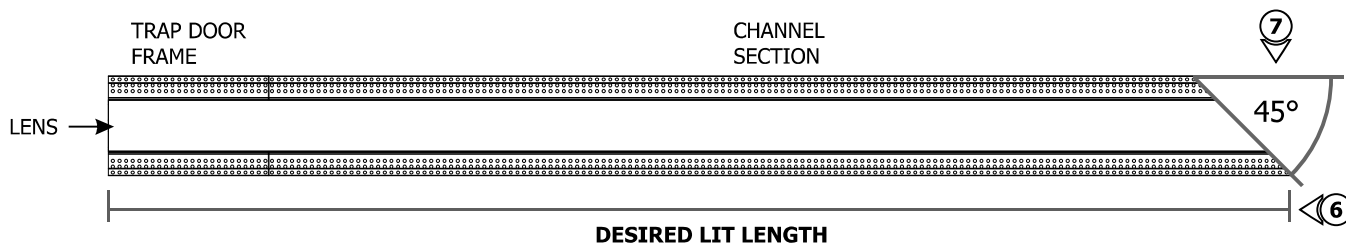
**3:** Snap the lens into the assembled trap door frame and channel **BEFORE** cutting to length. This ensures a proper fit after installation.



**4:** Cut the assembled trap door frame, channel, and lens to match the desired lit installation length.

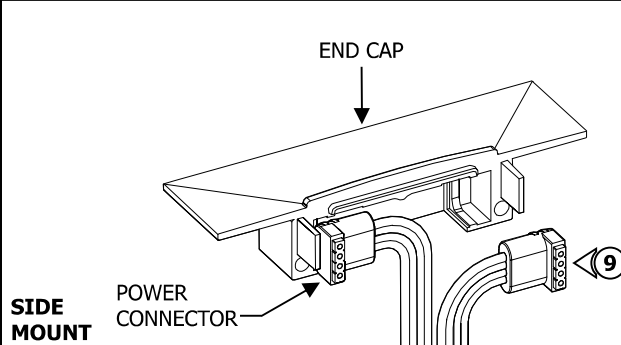
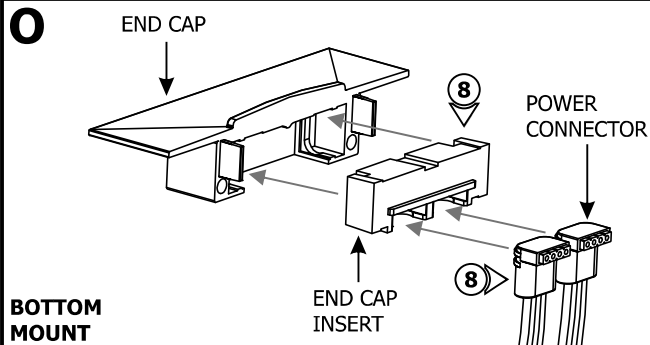
**M**

**5: For Room Wrapping Configurations**, miter cut each section of assembled channel and lens to match the corner angle. In a 90° inside corner installation as shown, each channel section is cut at a 45° angle to form a complete corner.

**N**

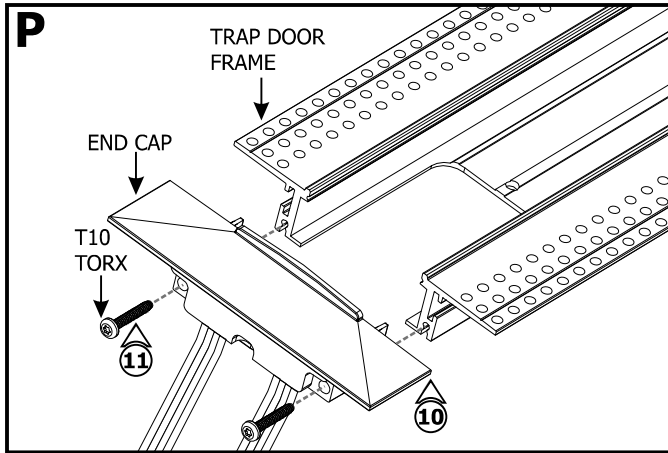
**6: For Zig Zag Configurations**, determine the channel length and cut channel and lens at a 45° angle from the outer corner.

**7: Cut additional lens/channel assembly for the opposing 45° angle and any other corners as required for the installation.**

**O**

**8: For installations where the LED strip will be laid on the **bottom** of the channel**, place the power connectors into the end cap insert. Slide the end cap insert and power connectors into the end cap.

**9: For installations where the LED strip will be laid on the **side** of the channel**, rotate the connectors and place them into the end cap.

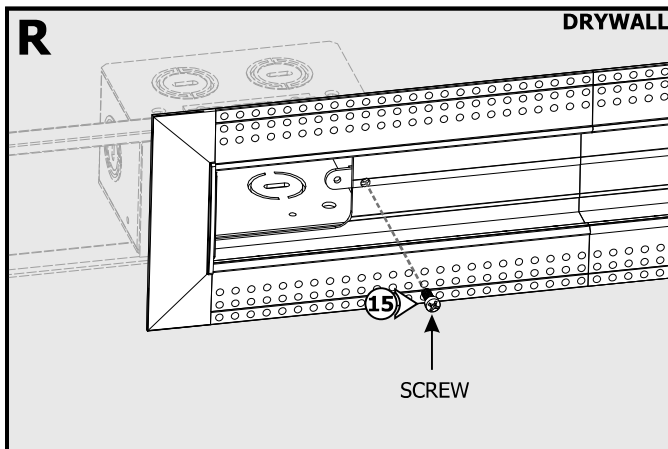
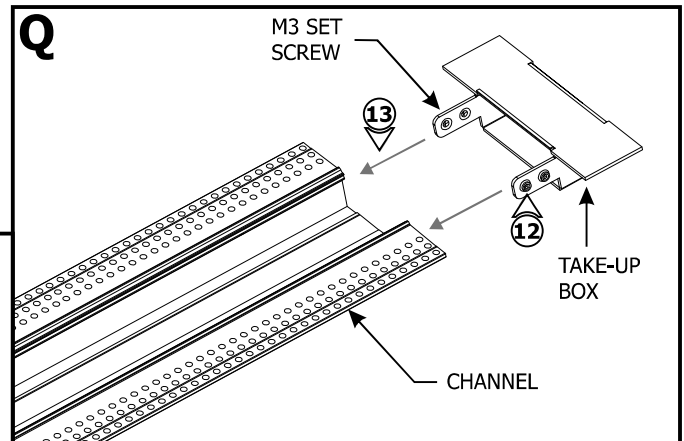


**10:** Insert the #4-40 Torx screws through the end cap holes and thread into the TruLine 1.6A channel.

**11:** Tighten the end cap to the channel using the provided T10 Torx screwdriver.

**12:** Loosen (**Do Not Remove**) the four M3 set screws on the Take-Up Box using a 1.5mm Allen wrench.

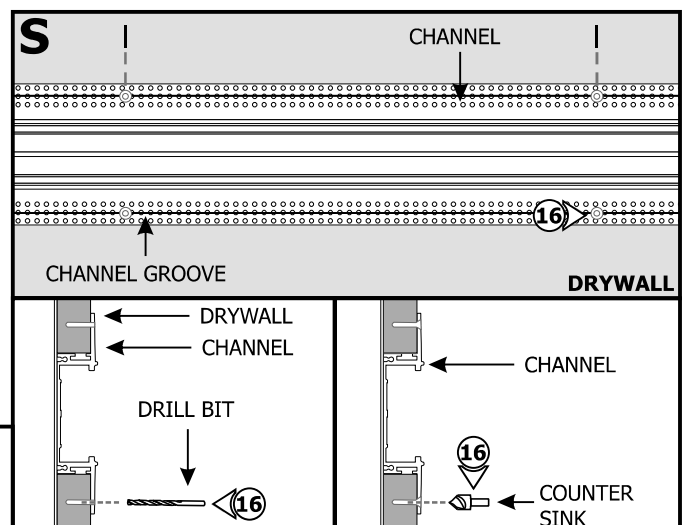
**13:** Install the Take-Up Box at the end of an installation run. Slide the Take-Up Box into the channel and tighten the four M3 set screws using a 1.5mm Allen wrench to secure in place.

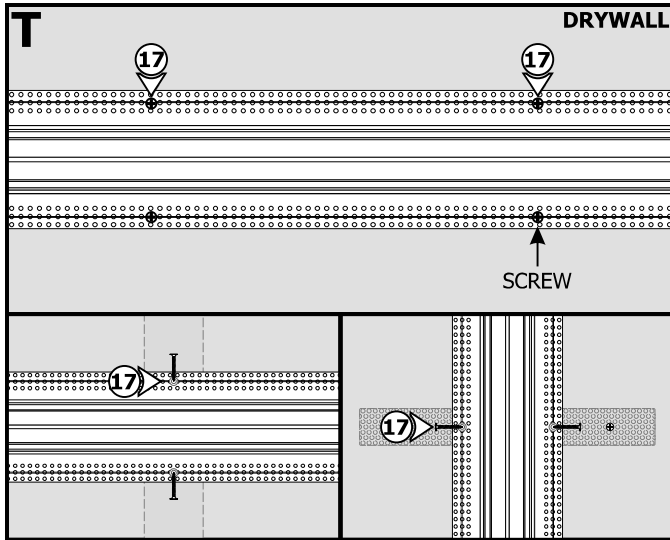


**14:** Place the assembled channel to the cutout area on the wall making sure to fully seat it against the power connector end cap.

**15:** Attach the assembled trap door frame and channel to the junction box using the provided screw.

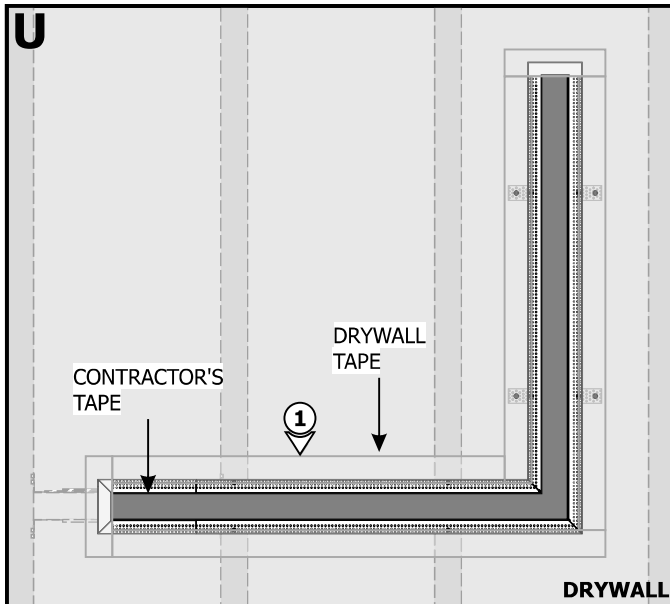
**16:** Using the marked locations on the drywall, drill and countersink along the channel grooves using the provided square drill with countersink bit.





**17:** Properly secure the channel to the marked studs and mounting straps using drywall screws (**DO NOT over tighten**). Ensure all screw heads are flush with the channel surface.

## Section Five: Plaster, Sand and Paint



**NOTE:** Cover the channel opening with contractor's tape before plastering.

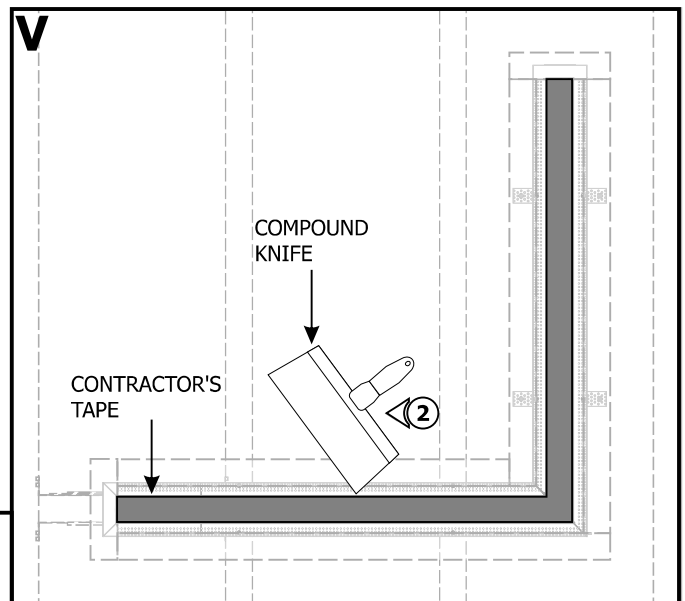
**NOTE:** For areas with lots of vibrations, it is suggested to use Durabond to avoid cracking of plaster.

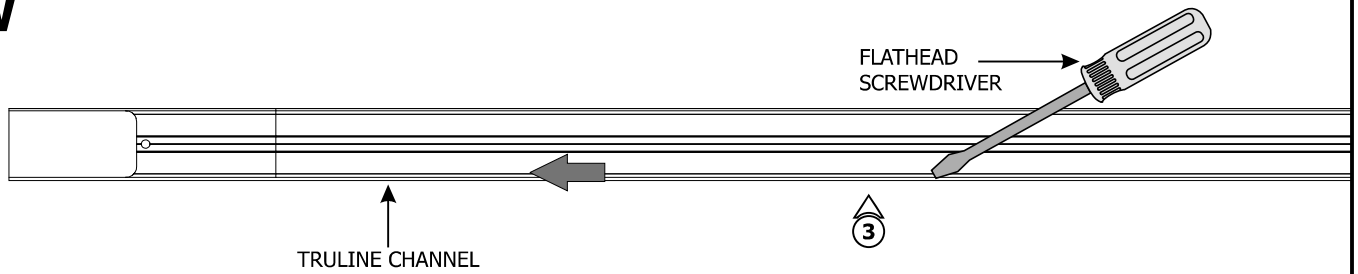
**NOTE: Do Not** use premixed joint compound "Soft Mud". No use compuesto para juntas premezclado "Soft Mud".

**NOTE:** Recommended plaster method: 1st Coat - Durabond 25 with 8" Blade, 2nd Coat - Easy Sand 45 with 10" Blade, 3rd Coat - skim coat with 12" blade

**1:** Must apply drywall tape (Ultra-Thin drywall tape suggested) along edges of channel up to the groove to prevent cracking of plaster after installation. **DO NOT** overlap strips of drywall tape.

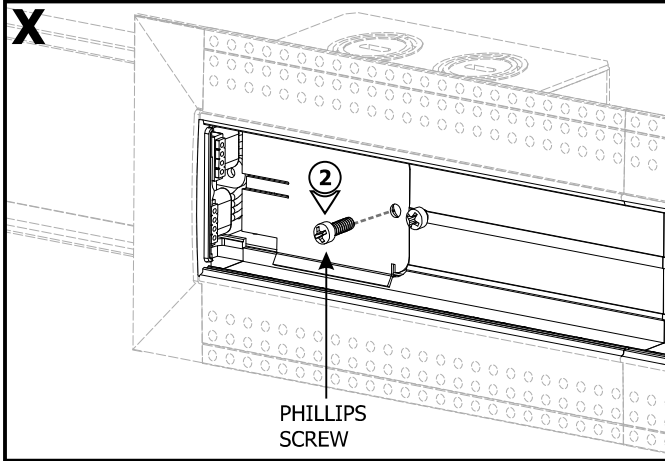
**2:** Use a 12" compound knife for a smooth compound spread. Sand, paint, and finish the plaster and drywall before removing the blue contractor's tape.



**W**

**3:** Carefully use a flathead screwdriver to remove excess drywall from the internal bevel/edge.

## Section Six: Install the LED Strip

**X**

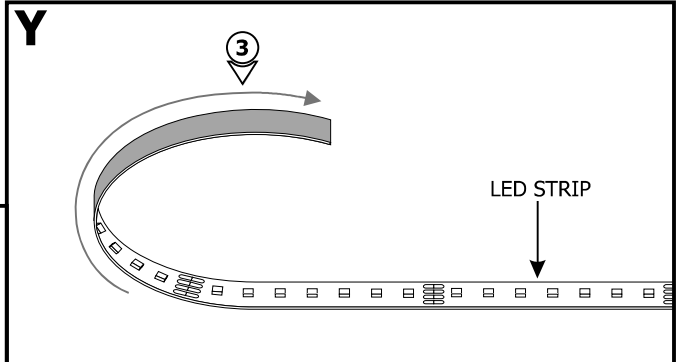
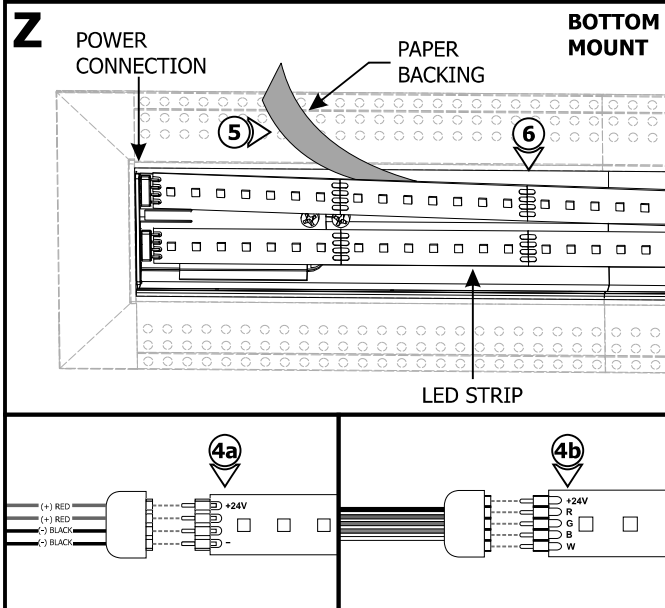
**1:** Remove the blue contractor's tape from the inside of the channel. Clean the channel surface with alcohol to remove any dust or debris before continuing.

**IMPORTANT:** LED strip may not properly adhere to channel surface unless the channel is cleaned with alcohol prior to application.

**2:** Attach the trap door to the junction box using the Phillips screw.

**NOTE:** If installation requires RGB, RGB+W, or Tunable White, refer to wiring diagrams on pages 12 and 13.

**3:** Gently uncoil the LED strip before applying to the channel otherwise the strip may lift off of the surface.

**Y****Z**

### Power Feed Installation: Bottom Mount

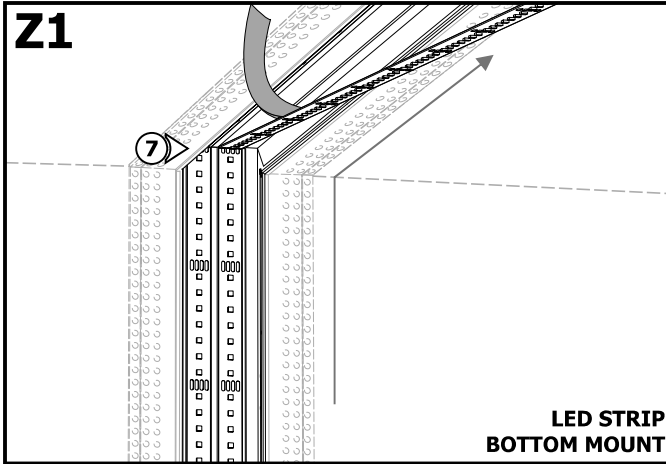
**4a:** Line up the +24V connection side of the power connector with the "+24VDC" marking on the LED Strip. Push the male connector of the LED Strip into the female connector of the power connector.

**4b:** For RGBW Configurations, align the "RGBW" markings on the LED Strip with the corresponding wires of the power connector. Push the male connector of the LED Strip into the power connector.

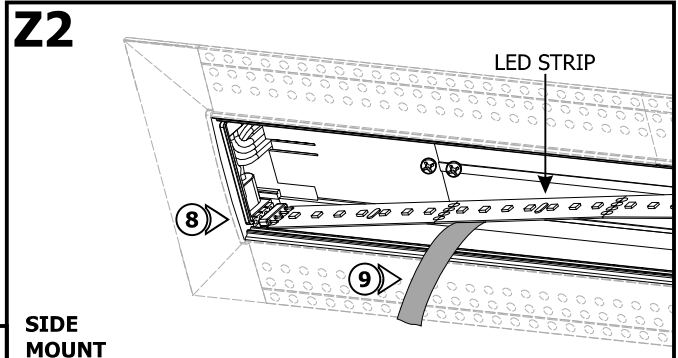
**5:** Carefully remove the backing from the LED Strip, making sure not to remove the tape from the LED Strip.

**6:** Firmly press down the adhesive portion of the LED Strip onto the channel surface while removing the rest of the backing, making sure there are no air bubbles that can cause surface irregularities.



**Z1**

**7: For Room Wrapping Configurations**, bend the LED Strips 90° on the **bottom** of the channel to match the corners. Continue removing the paper backing from the LED strip and installing along channel, pressing adhesive into place using **ONLY** fingers.

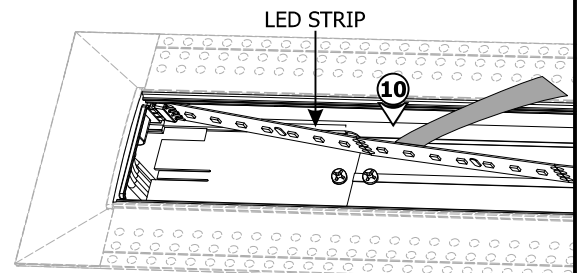
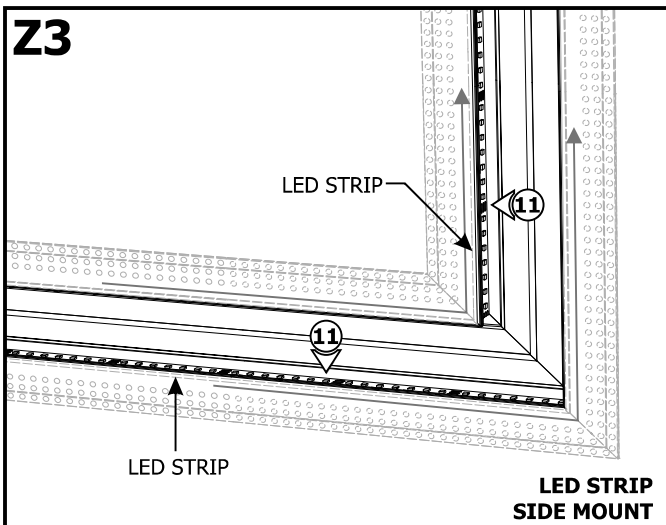
**Z2**

### LED Strip Installation: Side Mount

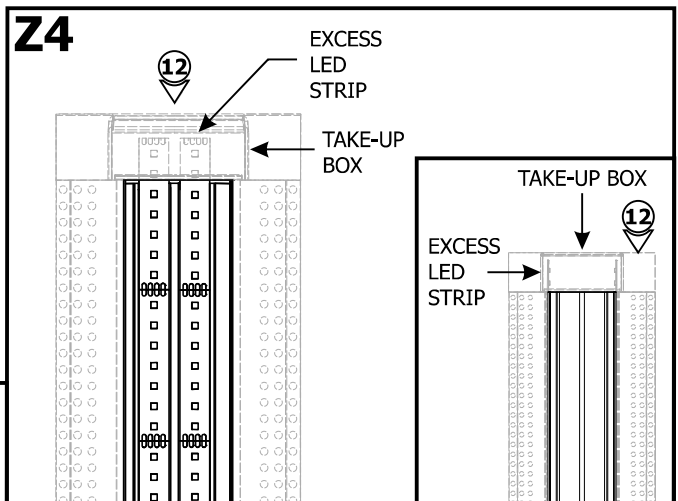
**8:** Refer to step 4 on page 8 to connect the LED Strip to the power connector.

**9:** Carefully remove the backing from the LED strip, making sure not to remove the tape from the LED strip. Firmly press down the adhesive portion of the LED strip onto the channel surface while removing the rest of the backing, making sure there are no air bubbles that can cause surface irregularities.

**10:** Repeat steps 8 and 9 to install the second LED strip on the other side of the channel.

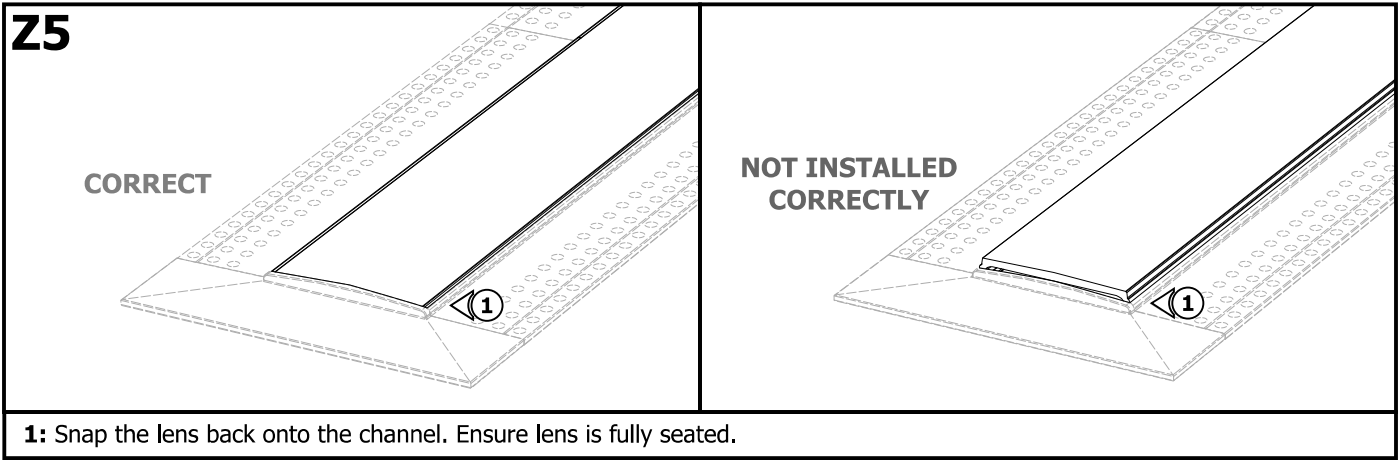
**Z3**

**11: For Zig Zag Configurations**, bend the LED Strips 90° on the **sides** of the channel to match the installation corner. Continue removing the paper backing from the LED strip and installing along channel, pressing adhesive into place using **ONLY** fingers.

**Z4**

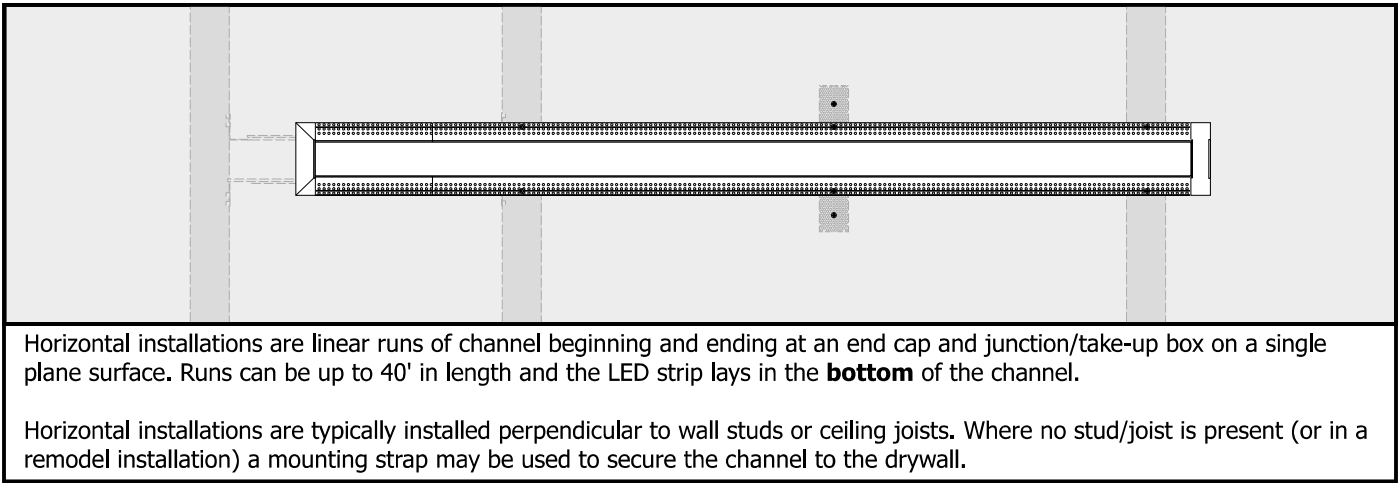
**12:** If required, trim the LED strips on the dashed cuttable section, place the excess LED strips inside the Take-Up Box. Ensure the entire length of the channel is covered with LED strips to avoid unlit areas.

## Section Seven: Lenses

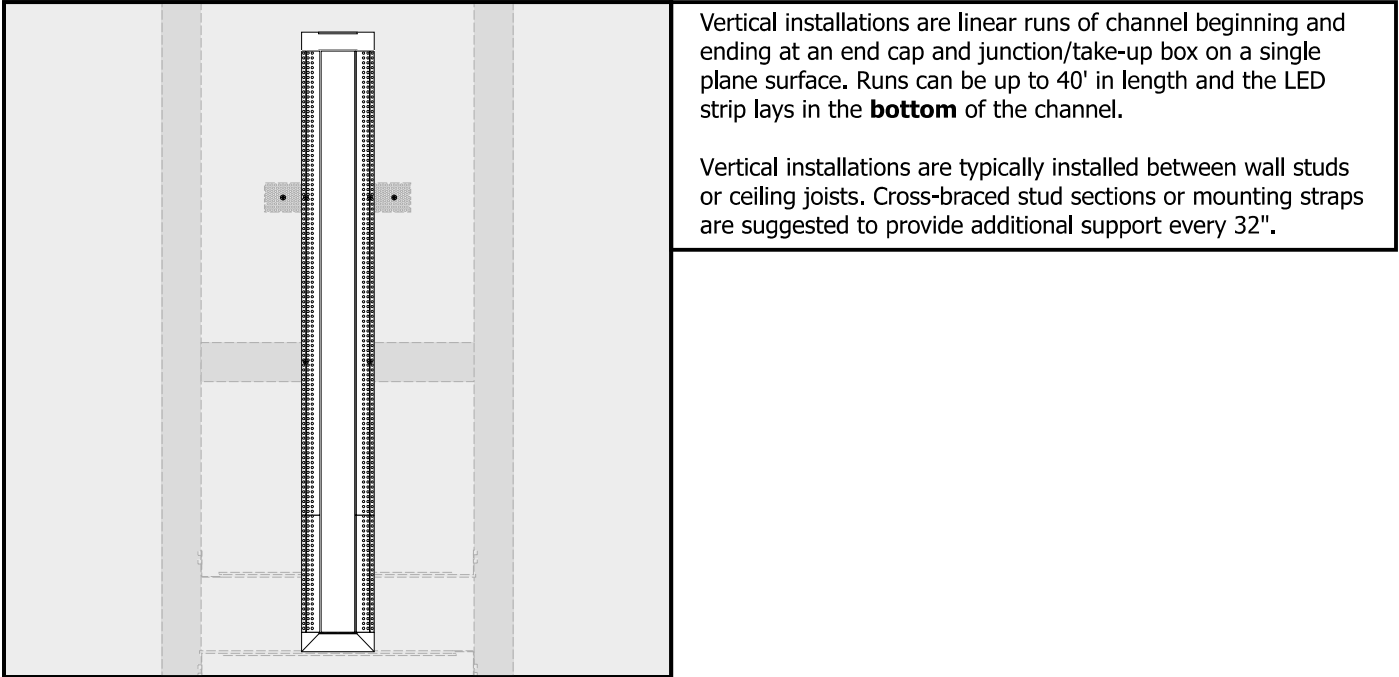


### Configuration Notes

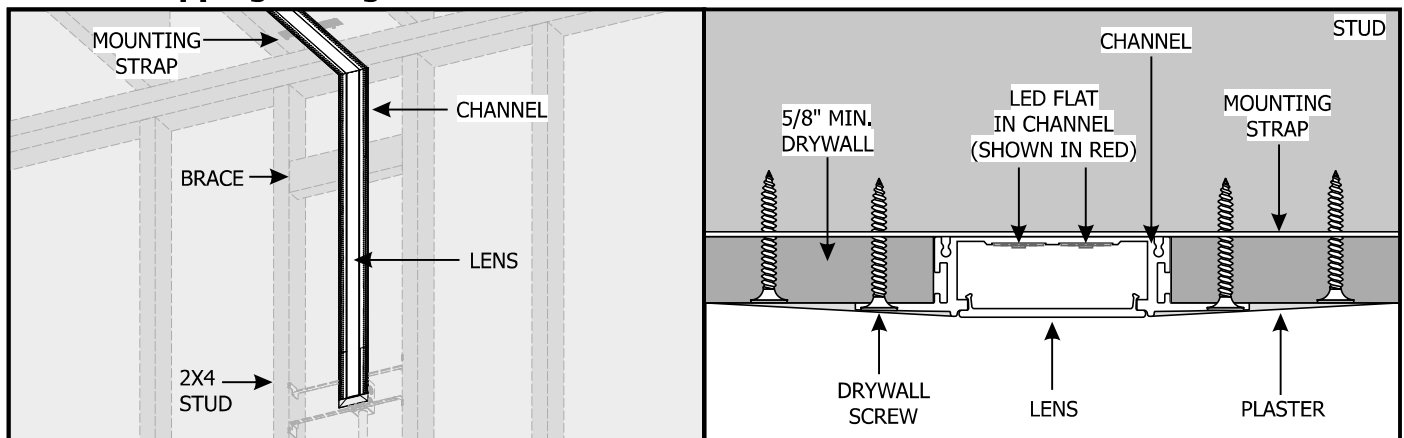
#### Horizontal Configuration



#### Vertical Configuration

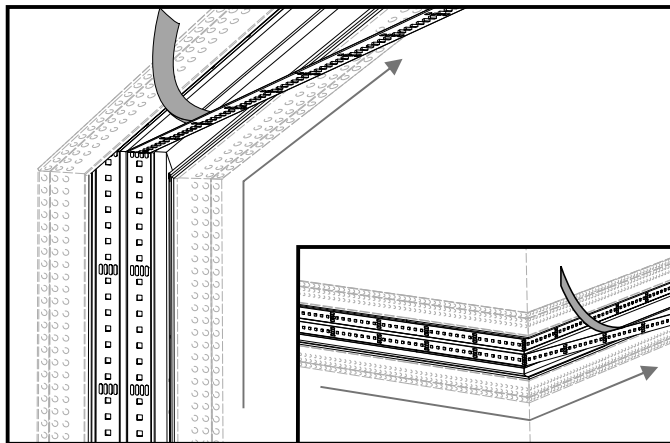


## Room-Wrapping Configuration



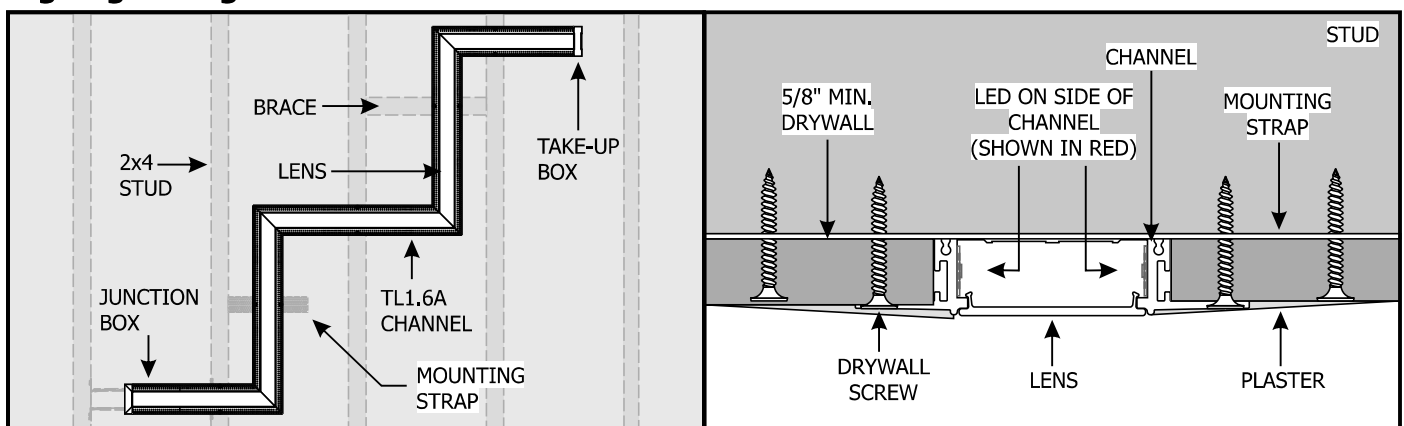
Room-wrapping configurations are used for installations that join runs of **TruLine 1.6A** on multiple planes (like a ceiling and a wall) using miter-cut sections of channel.

For room-wrapping installations, the LED strip will be installed in the **bottom** of the channel.



Room-wrapping installations use LED strip bent 90° for inside or outside corner configurations. Channel sections will be miter cut on-site.

## Zig Zag Configuration



Zig Zag configurations are used for installations that join runs of **TruLine 1.6A** on a single plane (like a ceiling or a wall) using miter-cut sections of channel.

For Zig Zag installations, the LED strip will be installed in the **side** of the channel to allow the strip to follow the channel corners.

**Static White**

0-10V WIRES IF NEEDED

**INPUT 120-277 VAC**

N

L

GND

**UNI POWER SUPPLY**

+24V

-24V

+24V RD

-24V BK

**STATIC WHITE 24V LED STRIP/FIXTURE**

**INPUT 120-277 VAC**

N

L

GND

**UNI POWER SUPPLY**

+24V

-24V

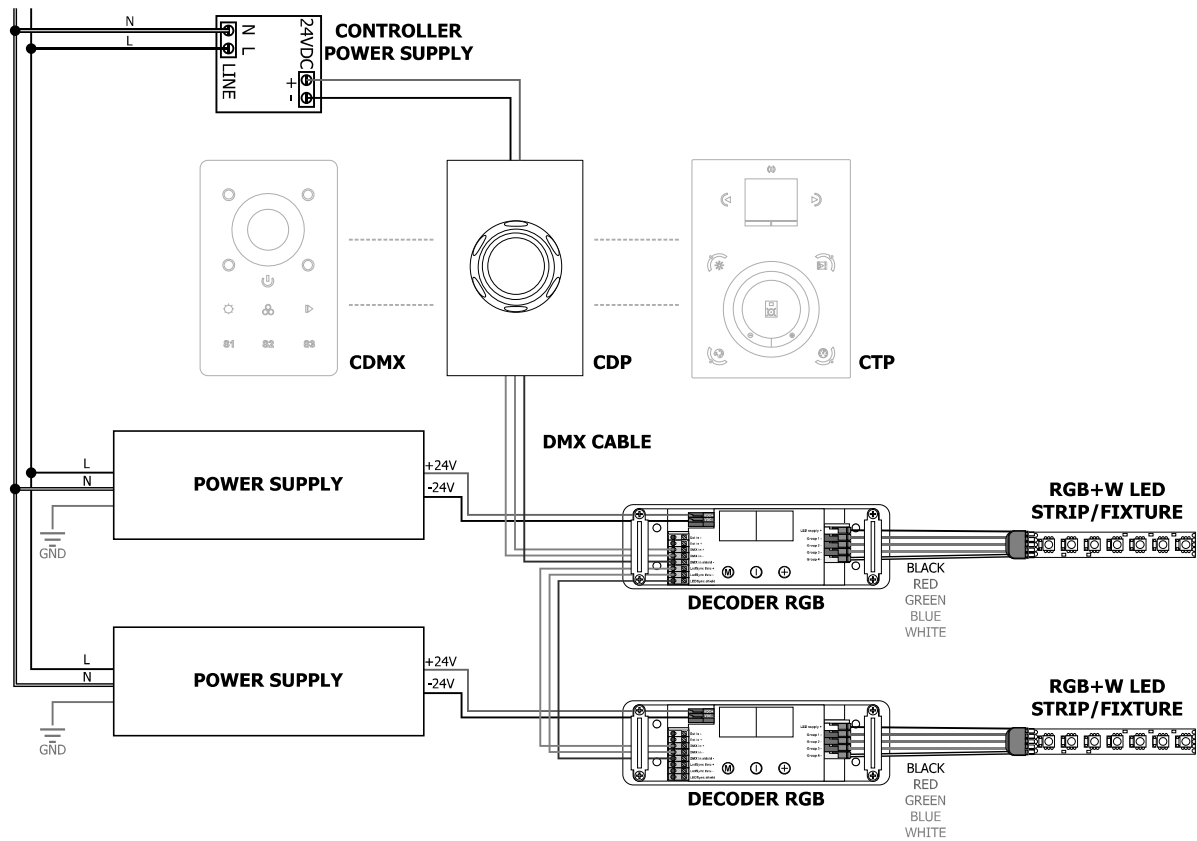
+24V RD

-24V BK

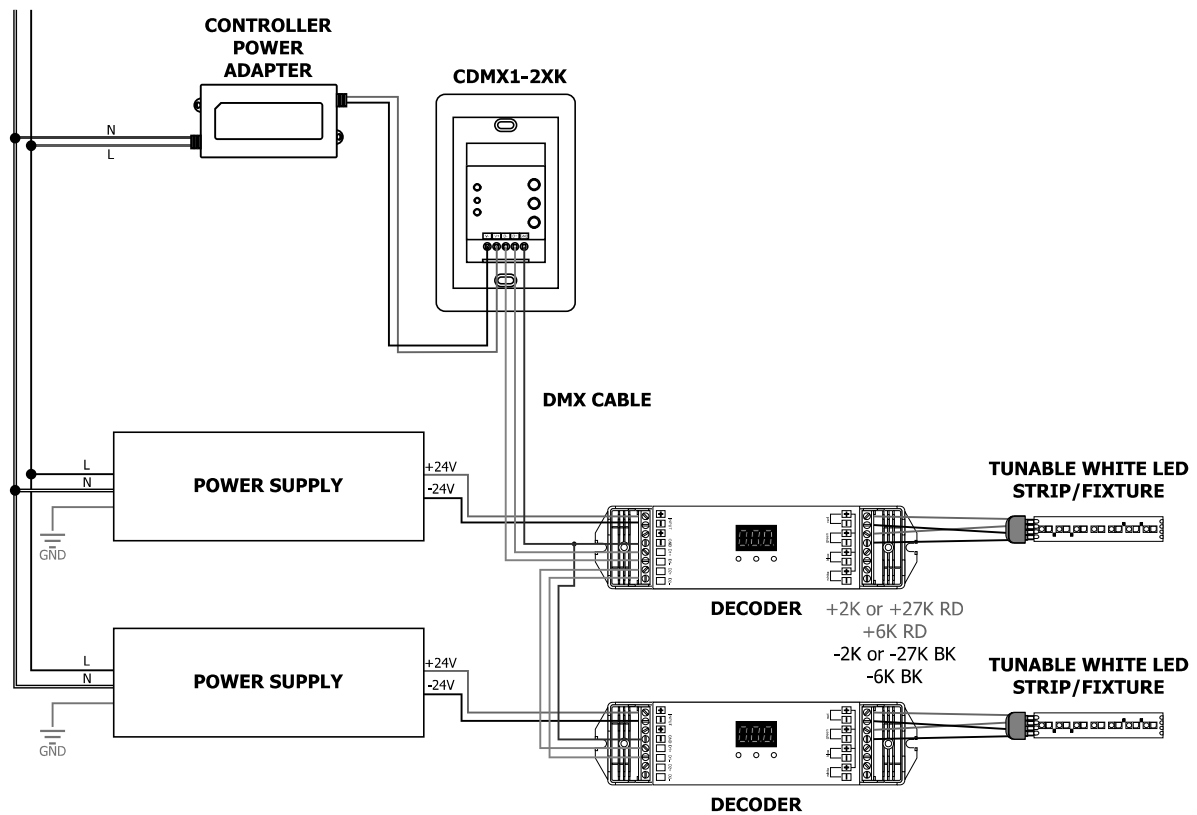
**STATIC WHITE 24V LED STRIP/FIXTURE**



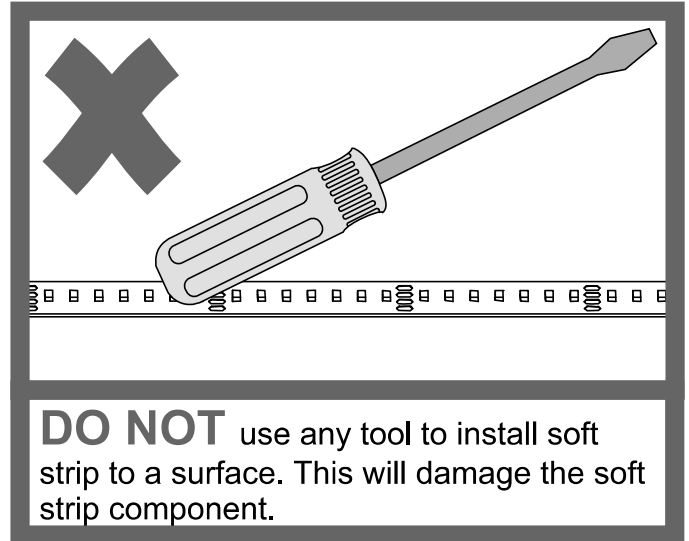
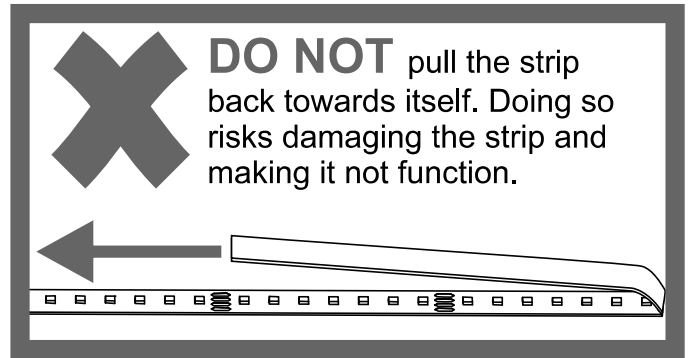
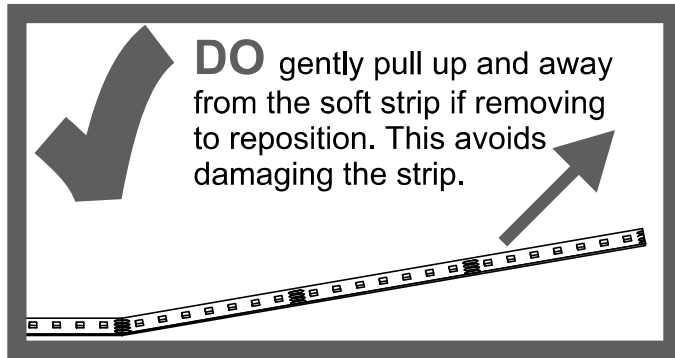
### RGB+W Configuration: Using LED Power Supply with RGB Strip & CDP, CTP or CDMX Control



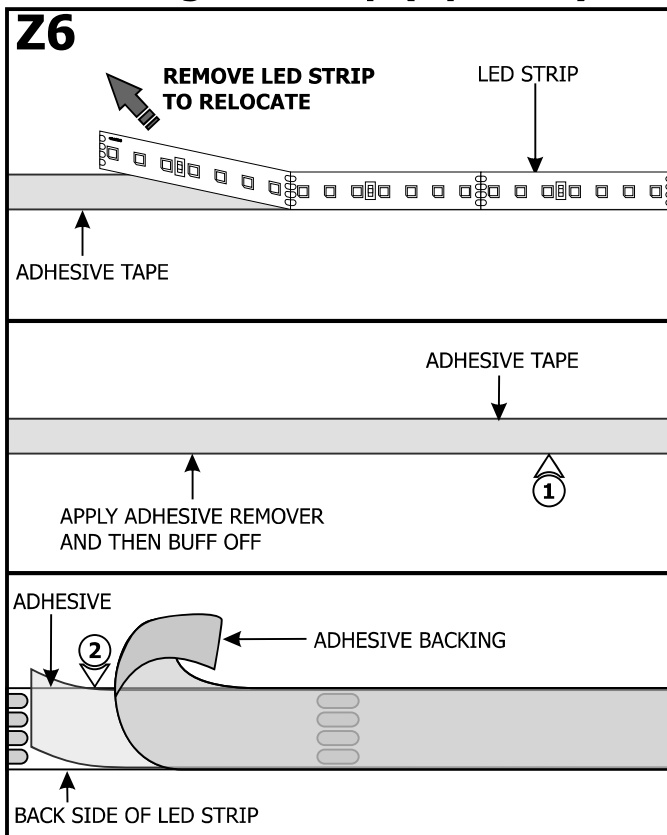
### Tunable White: 2XK Power Supply with CDMX Controller



## IMPORTANT INFORMATION REGARDING INSTALLATION AND REWORK OF SOFT STRIP LED



## Relocating LED Strip (Optional)



**NOTE:** If relocating the installed LED strip, make sure that the adhesive tape on back of the LED strip covers the entire strip. The adhesive tape isolates the strip from the installation surface. Damaged or inconsistent adhesive tape may cause the contacts on the back of the strip to come in contact with the conductive heat sink which will cause the strip to short and burn. Call PureEdge Lighting to get replacement adhesive tape and/or optional aluminum heat sink tape (SS-HR-F).

- 1:** To remove tape residue from back of the strip, apply WD-40, Goo Gone, or a mixture of warm water and lemon oil to the corner of a clean, dry towel. Gently buff the area containing the adhesive residue until it is completely removed.
- 2:** Gently remove a few inches from one side of the tape backing. Attach the adhesive tape to the back of the LED strip and apply moderate pressure to affix the tape. Continue this step a few inches at a time until the entire adhesive tape is attached to back of the LED strip.
- 3:** Refer to Section Six to reinstall the LED Strip.