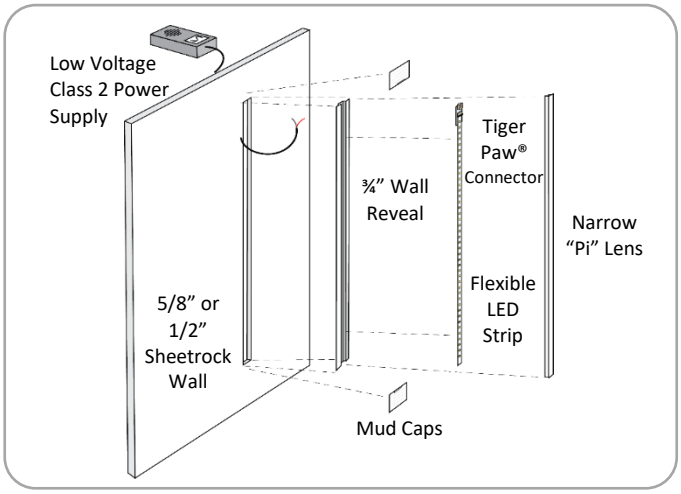
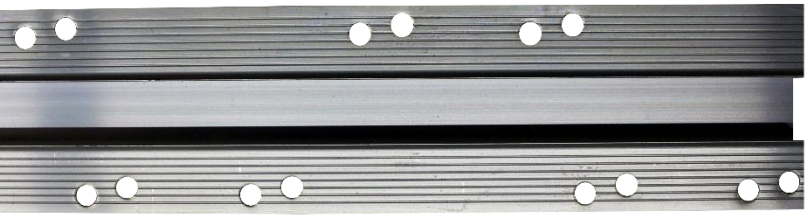
inspired LED Impression Series In-Wall

Narrow System Installation Guide

Designed to be mounted during drywall installation or used to build custom fixtures, the new **Impression Series In-wall** lighting system from Inspired LED allows builders and contractors to create a dramatic LED light within the wall itself. Featuring a soft-white diffused lens to eliminate hot spots, the Impression Series In-wall system is an unequivocally pure source of light, perfect for any commercial or residential application.



System Components: *See product spec sheets for more info.*



Pittcon SOFTFORMS® Wall Reveal (SWR-075-050), Pittcon Channel Screed Plaster Molding (DCS-50-75), or Fry Reglet Drywall Reveal (DRM-50-75)
Designed for 5/8" or 1/2" drywall, wide enough to contain a single 12V or 24V Mega Bright LED flex strip and Tiger Paw® connector. Sold in six foot lengths.

Narrow Diffusor "Pi" Lens (SKU# 3754)
Designed to snap into 3/4" wall reveals, diffuses our 12V or 24V Mega Bright flexible LED strips. Available in 6' lengths (or 12' lengths for will call only).

12V Mega Bright LED Flexible Strips (SKU# 12V-MB-XX) or 24V Mega Bright LED Flex Strips (SKU# 24V-MB-XX)
At 120 LEDs per meter, these low voltage flex options provide a dense light output in a variety of color temperatures and brightness levels.

Reversible Mud Caps (SKU# 3774)
Provides smooth transition from aluminum to drywall. Reversible design allows end caps to be used with wide or narrow Impression Series products.

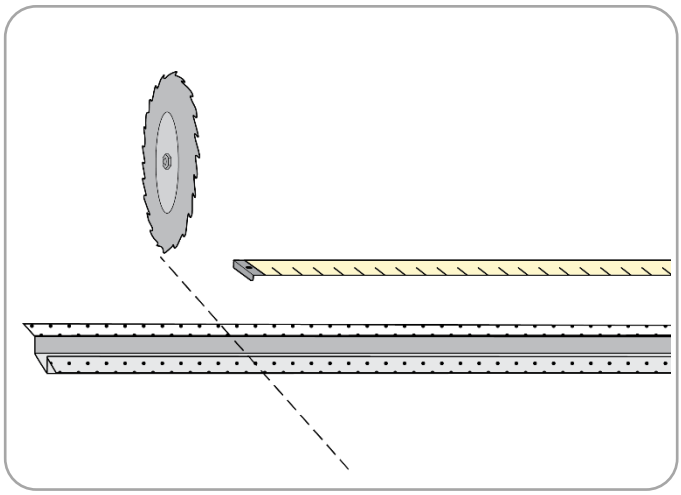
Micro-lock Tiger Paw® (SKU# 3613)
Recommended to connect a strip of 12V or 24V DC Mega Bright LED strips to a single power input while minimizing loss of light.

12V or 24V DC Class 2 Power Supply (SKU#s vary)
Use with 12V or 24V flexible LED strips for a clean, consistent source of power to your lights. Combine with compatible controllers or dimmer switches.

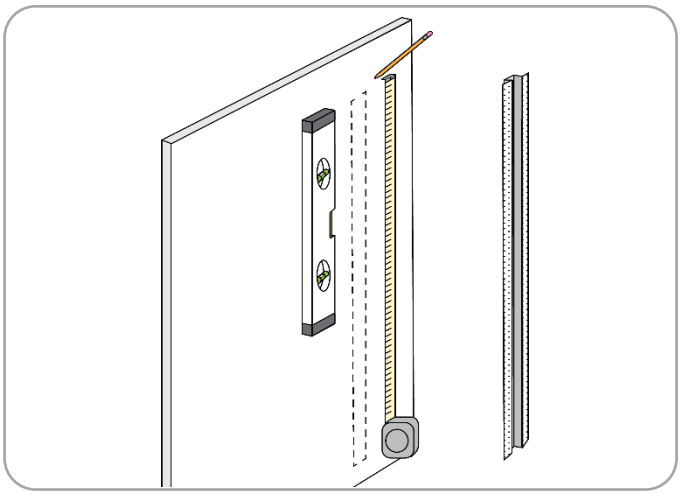
Instructions: ***Please note; instructions are intended to guide the installation of Impression Series channels, lights, and lenses. It is recommended that all drywall and electrical work be completed by licensed and experienced professionals.***

Materials:

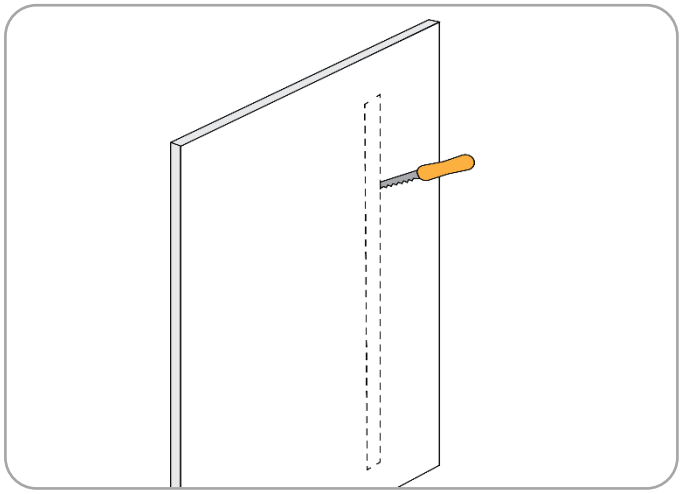
- ☐ 5/8” drywall sheetrock *(installed, not mudded)*
- ☐ Drywall mud, mixed in bucket or tray
- ☐ Plaster tape
- ☐ Taping knife
- ☐ Construction adhesive
- ☐ Painter’s tape
- ☐ Scissors
- ☐ Level tool
- ☐ Drywall T-square
- ☐ Oscillating saw or jab saw
- ☐ Power drill with countersink bit
- ☐ Sheetrock screws (at least 2”)
- ☐ Saw with blade for aluminum and/or plastic *(if planning to alter length of channel/lens)*
- ☐ 16-22AWG in-wall rated cable *(**solid**, not stranded)*
- ☐ Impression Series Narrow Lens
- ☐ Compatible 3/4” Drywall Reveal
- ☐ Mud caps *(two per wall reveal)*
- ☐ 12V *or* 24V Mega Bright Flexible LED strips in desired color (*one strip per wall reveal)*
- ☐ Micro-lock Tiger Paws® *(one for each strip of LEDs)*
- ☐ Class 2, 12V or 24V DC Power supply



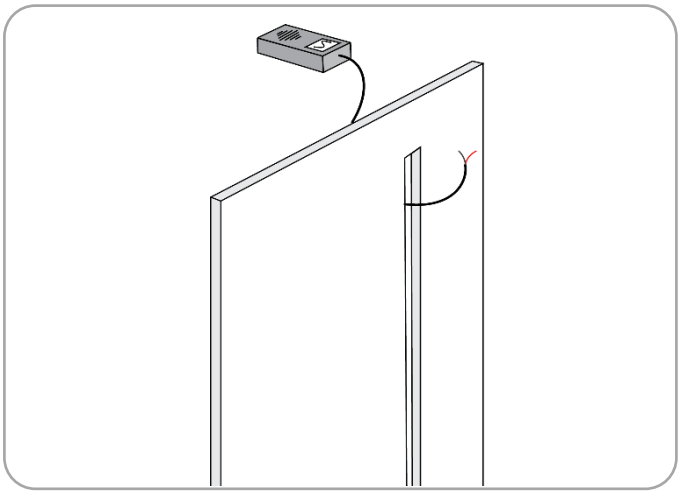
Step 1: Measure and mark desired length of wall reveal. Cut using table saw and appropriate blade designated for plastic or aluminum (depending on selected material).



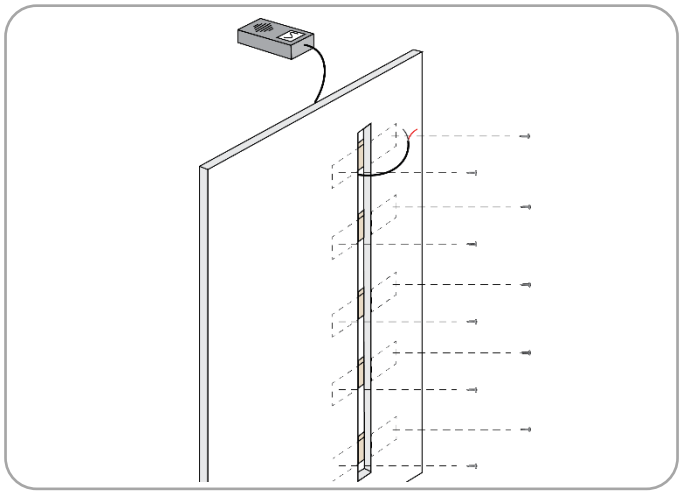
Step 2: Using your level or T-square as a guide, measure and mark the length and width of the wall reveal in desired location on drywall. Final cut-out should measure 3/4” wide.



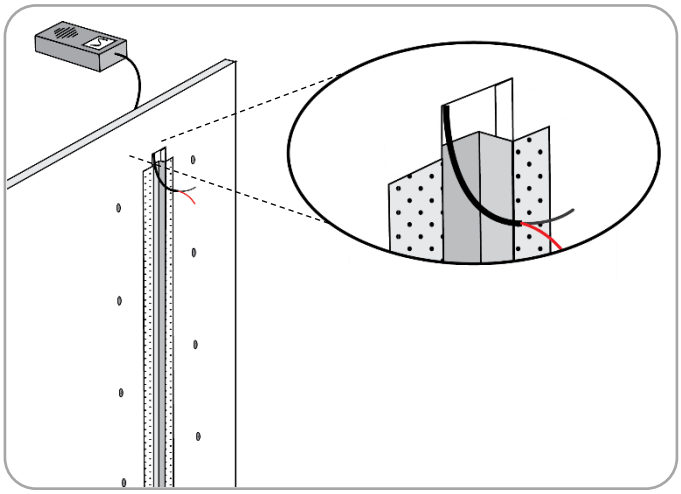
Step 3: Use oscillating saw or jab saw to cut away the marked drywall. Clear away as much debris as possible from inside the wall.



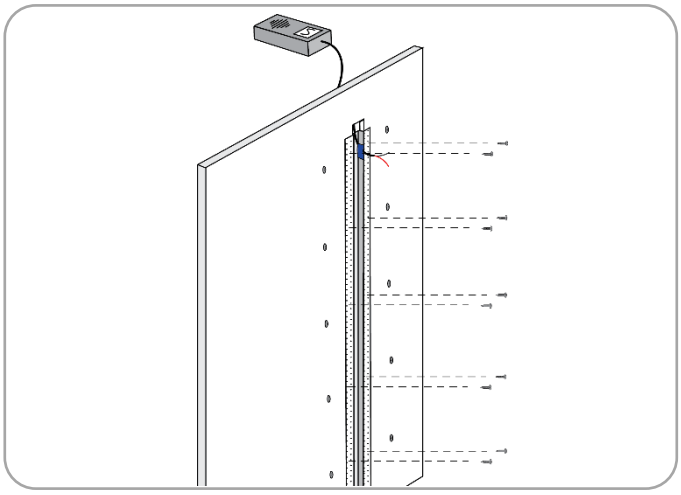
Step 4: Use in-wall rated **solid gauge** cable to create wire drops from Class 2 12V or 24V DC power supply to desired locations, leaving at least a 12” lead. Test power supply and wire drops to ensure functionality.



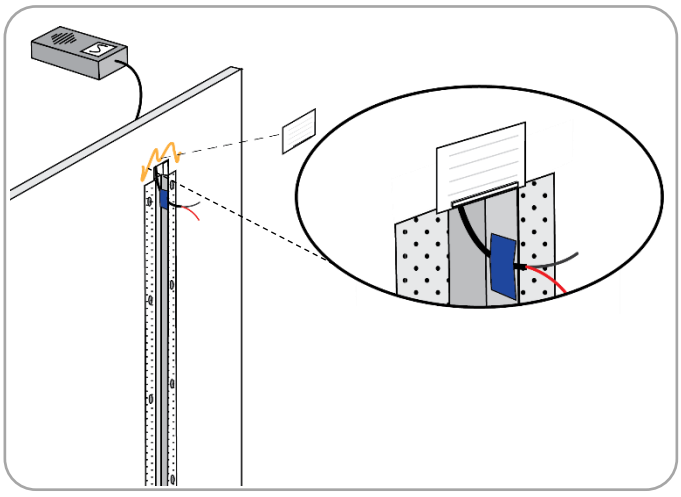
Step 5: Identify studs behind hole to which wall reveal can be mounted. If necessary, create studs every 12”-18” using wood planks no less than ¾” thick. Mount using countersink sheetrock screws.



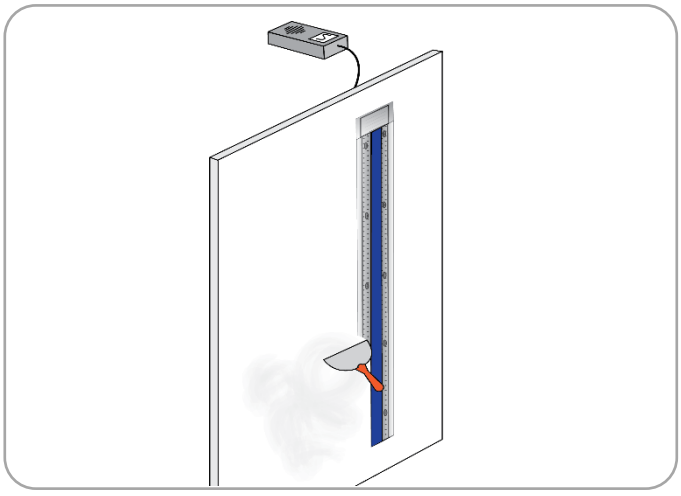
Step 6: Insert wall reveal into hole. Cut a small notch out of the top no taller than 1” and no wider than 1.5” to ensure it will be covered by mud-cap. Carefully pull wire drop through this opening.



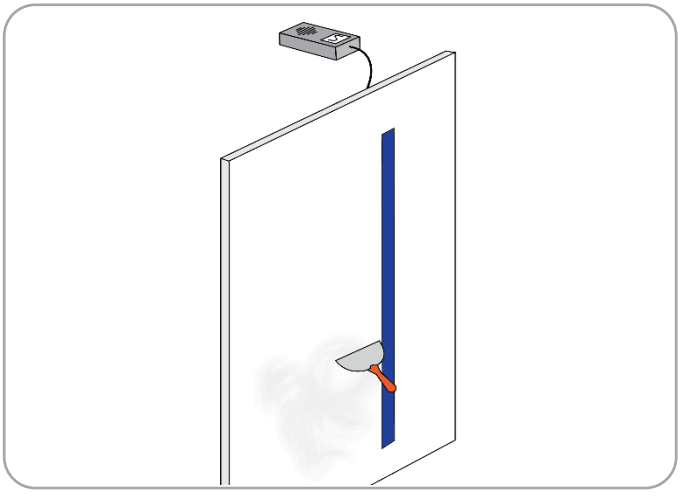
Step 7: Secure drywall reveal in place using sheetrock screws every 12”–18”. Excess stud mount screws from step 5 may be removed if desired. Tape wire drop in place to prevent loss or damage before proceeding.



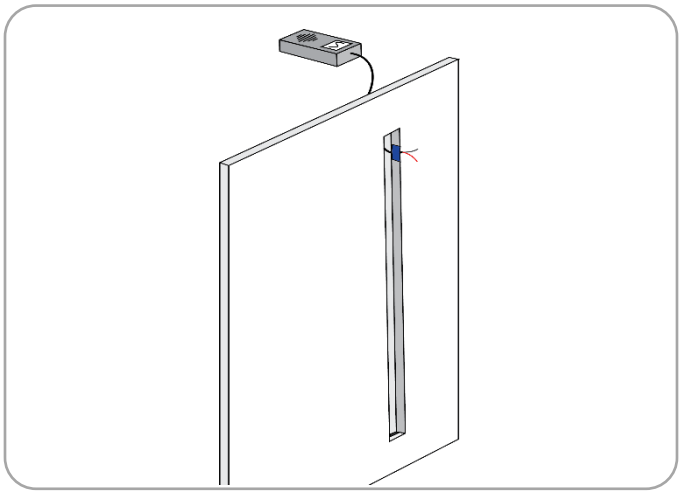
Step 8: Position mud caps on top and bottom edge of aluminum with **narrow** lip facing outward. Ensure wire drop notch is completely covered by mud cap and secure with construction adhesive.



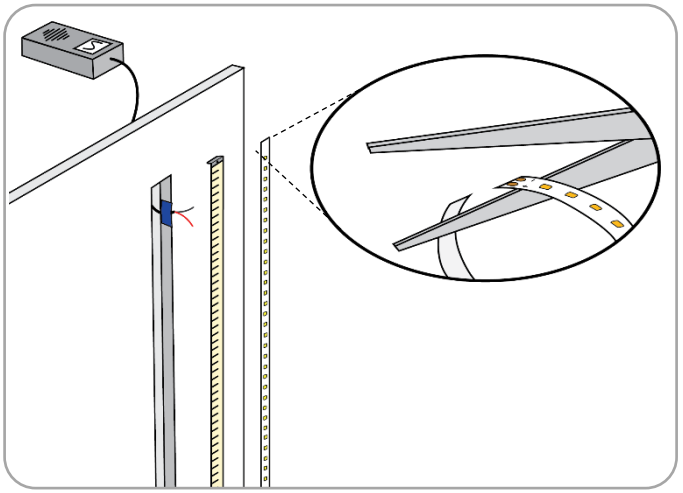
Step 9: Use painter’s tape to protect the interior of the wall reveal. Then, follow brand or industry instructions to apply joint tape and drywall mud over edges and mud caps. Spread evenly from the mud ridges over the wings.



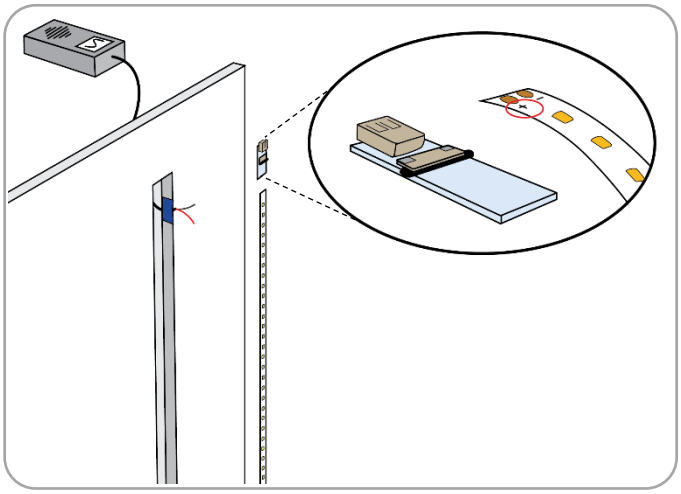
Step 10: For best results, apply at least four coats of mud for even blending, waiting for each layer to dry before adding another. Finish drywall with plaster, texture, and paint before proceeding to next step.



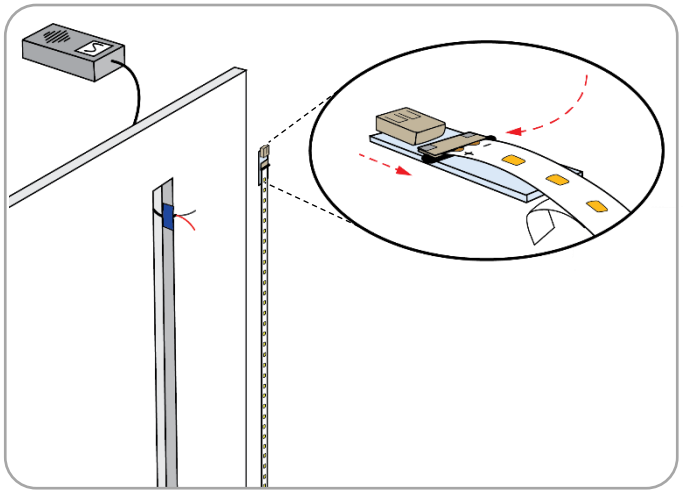
Step 11: When mud and/or paint is dry, remove painters tape from wall reveal. Ensure that wire drop is still in place, and that the space is free of mud or debris.



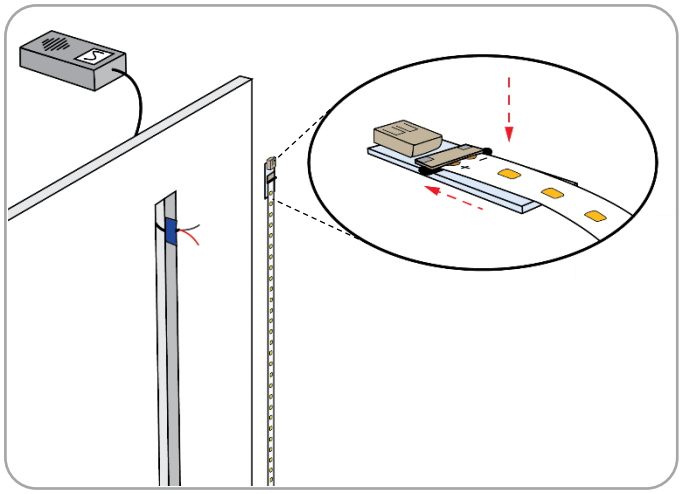
Step 12: Measure available space for your LED strip. Cut strip to length on **copper pads only**. If selecting between two cut points, use the shorter length.



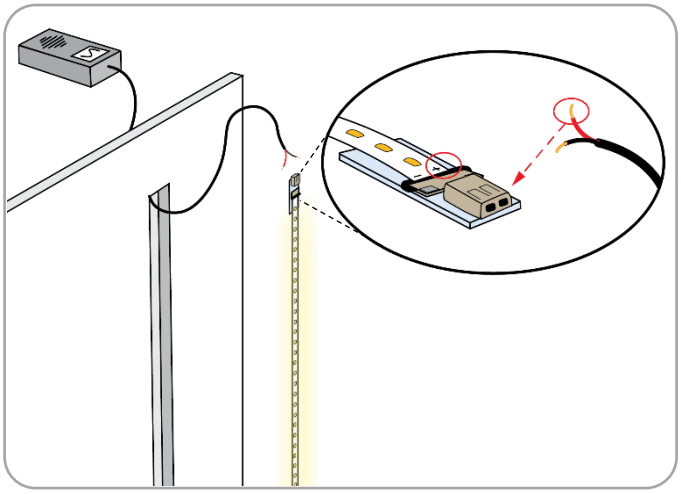
Step 13: Prepare LED strip to be inserted into Micro-lock Tiger Paw® by identifying polarity marked along the strip with +/- symbols. Positive polarity will be matched to your wire drop in step 16.



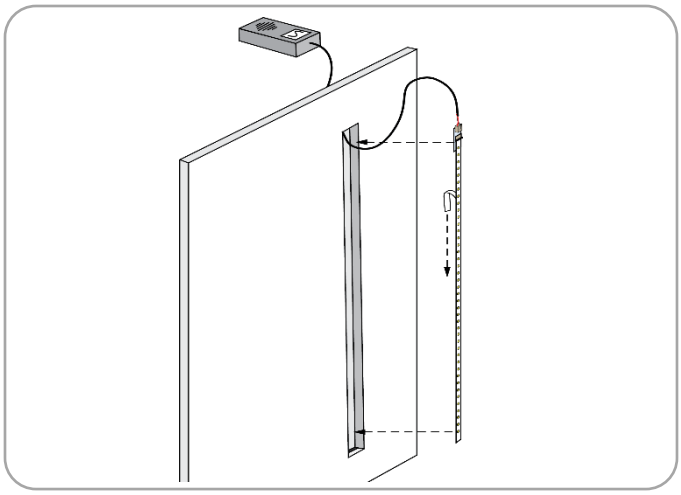
Step 14: Peel back LED adhesive covering about 1”. Pull open the black sliding latch on the Tiger Paw® and insert flex strip just below the beige bridge piece.



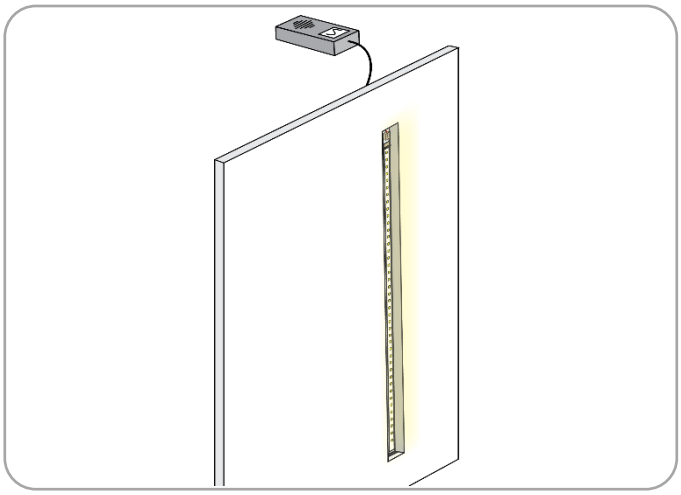
Step 15: Slide the black Tiger Paw® latch closed and firmly press LED strip adhesive onto board to secure connection.



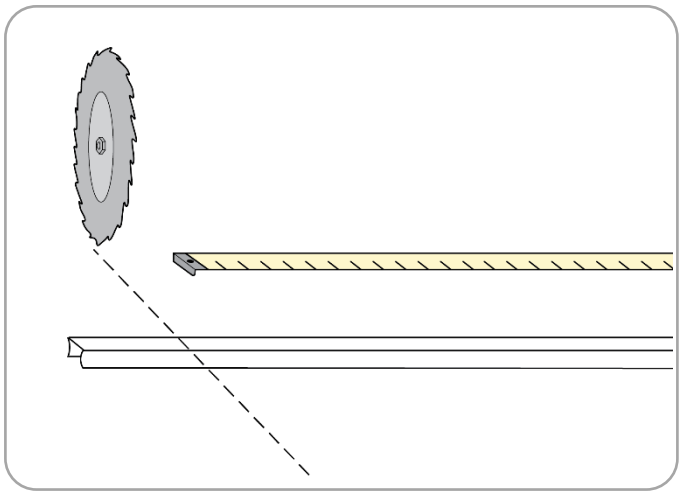
Step 16: Strip back ends of wire drop about ¼”. Match the positive side of cable to positive side of LED strip, then insert both polarities into beige micro-lock. **Ensure that lights are functioning** before moving on to next step.



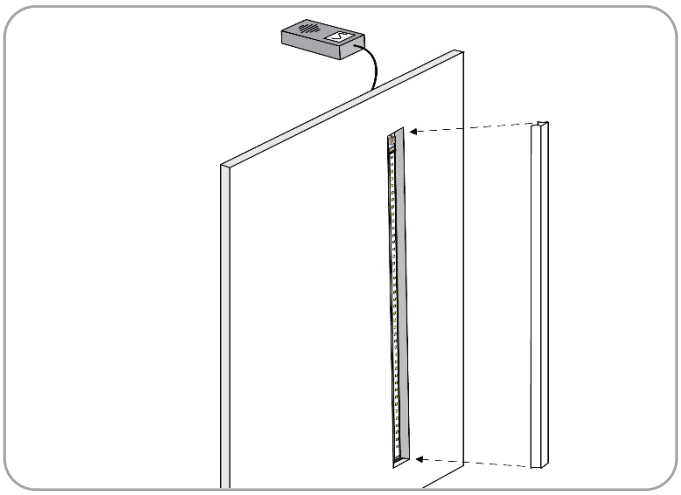
Step 17: Remove adhesive backing from Micro-lock Tiger Paw® and from LED strip, then carefully adhere along the inside of channel. Strip should be aligned as straight as possible for even light distribution.



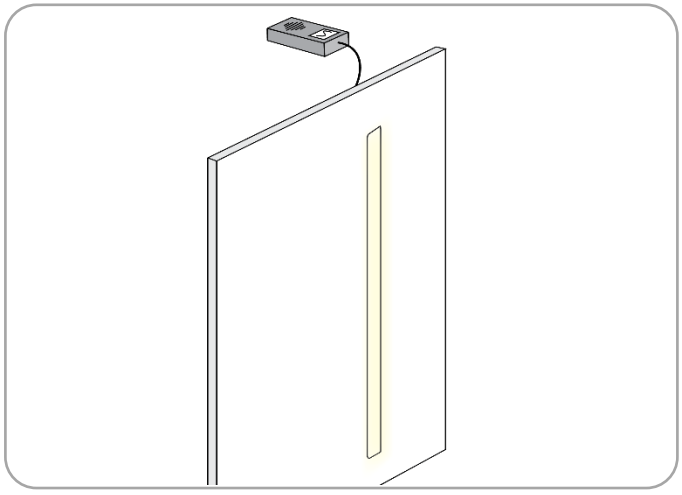
Step 18: After all LED strips have been installed, turn on power to **test full system**. Ensure that all diodes turn on and that they respond to dimming (if applicable). Once satisfied, turn off LEDs to complete install.



Step 19: Measure length of exposed wall reveal to determine the required size of lens pieces. Mark lenses and use a table saw to cut to length. **Do not use handheld dikes or clippers** as this may crack lens material.



Step 20: Once all steps have been completed and double checked, carefully align lens with the top or bottom edge of wall reveal and press firmly into place. If experiencing difficulty, be sure no mud or debris is blocking the reveal.



Completed Install

Troubleshooting:

- If no lights turn on check to be sure all polarities are properly matched.
- If LEDs are flickering erratically, double check connection to be sure both wire and LED flex are fully inserted and secured into the Micro-lock Tiger Paw®.
- If lights are strobing at regular, consistent intervals, double check the power requirements (power chart located on LED flex spec sheets) to ensure power supply is not being overloaded.
- If further assistance is required, please contact us using the information below.