

Radiant Edge DIY 1" Tall Panels

Installation Guide

Inspired LED

Questions? We're Here to Help: (480) 941-4286

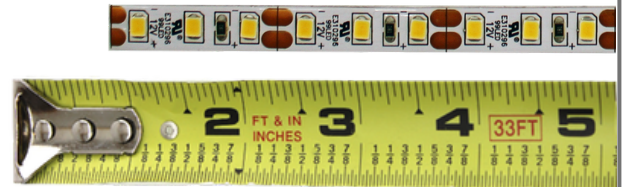
Instructions: Please note; instructions are intended to guide the construction of Radiant Edge Series panels. It is recommended that all drywall and electrical work be completed by licensed and experience professionals.

Materials:

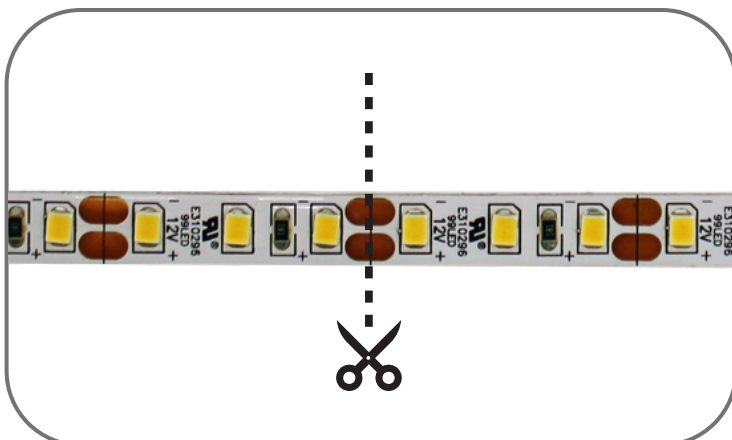
- Measuring tape
- Scissors
- Sharp dikes or hand clippers
- Wire strippers (if using Screw Terminals)
- Super glue (if desired)
- Phillip's head screw driver
- Radiant Edge Aluminum
- Radiant Edge 1" Tall Lens
- Radiant Edge 1" Tall End Caps (2 each)
- Radiant Edge Metal Mounting Clips or VHB adhesive
- 12V or 24V Flexible LED Strips in desired color (1 per panel)
- 3.5mm Plug-In Tiger Paw or White Screw Terminal (one for each strip of LEDs)
- 18-22AWG cable
- 12V or 24V power source



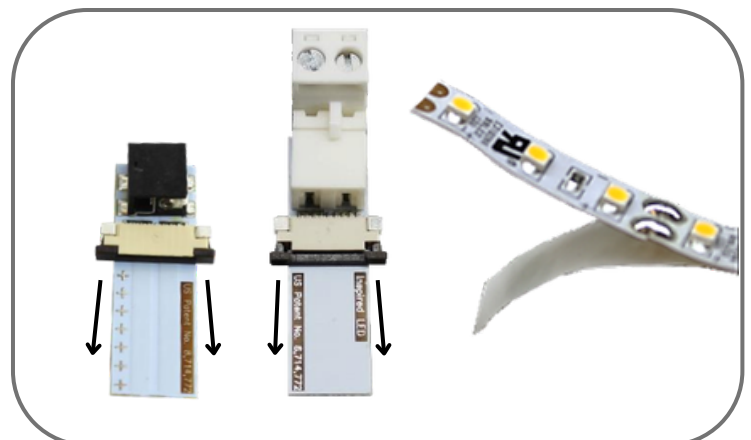
Step 1: To build, begin by measuring total available space for each completed Radiant Edge Series panel.



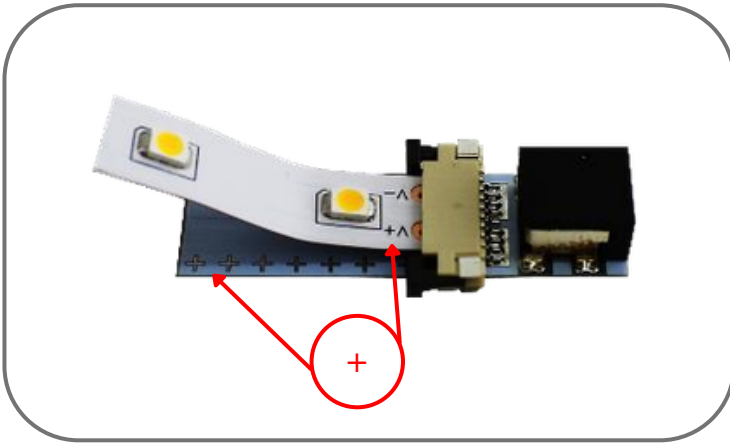
Step 2: Determine length of LED strip by taking total available space and subtracting 2" for each connector needed. *If using a connector on one side, subtract 2" total; a connector on both sides, subtract 4" total.*



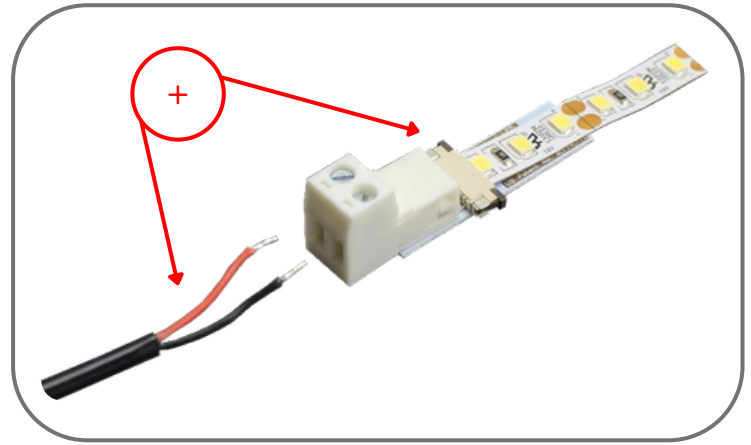
Step 3: Use scissors to cut along copper pads located closest to subtracted measurement without going over.



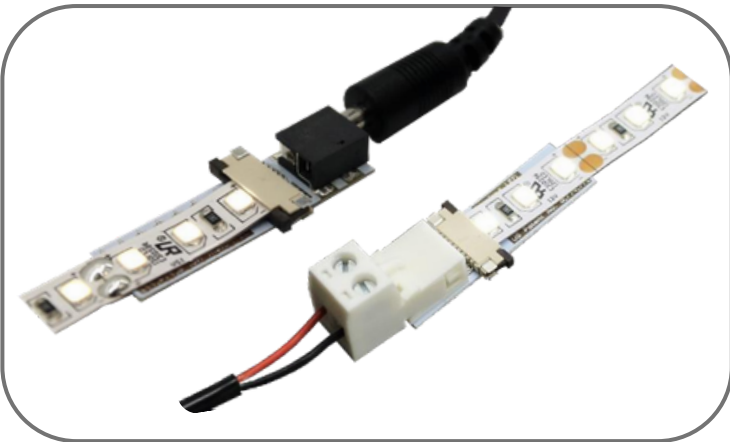
Step 4: Prepare to attach 3.5mm Plug-In Tiger Paw or White Screw Terminal by peeling back adhesive lining from LED strip, and pulling open black sliding latch or loosen input screws.



Step 5: Insert LED flex between black latch and bridge connector, then slide latch closed. *If using standard Plug-in Tiger Paws, ensure polarity of connectors is matched to the polarity of the strip.*



Step 6: If using Tiger Paw Screw Terminal, identify the polarity as marked along the strip- this will determine polarity of wiring. *Positive wire will align with positive side of LED flex strip.*



Step 7: Use power supply to test strip functionality. If lights do not turn on, double check that polarities are properly matched. Repeat steps 4-7 to add connectors to opposite sides of flex.



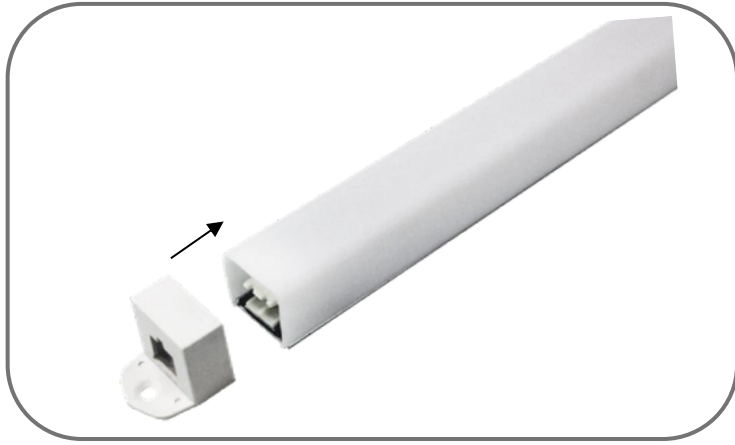
Step 8: Remove adhesive backing from both LED strip and connectors. *If using Screw Terminals, be sure to remove and set aside wire port before proceeding* Align with edge of aluminum channel and adhere strip along the center.



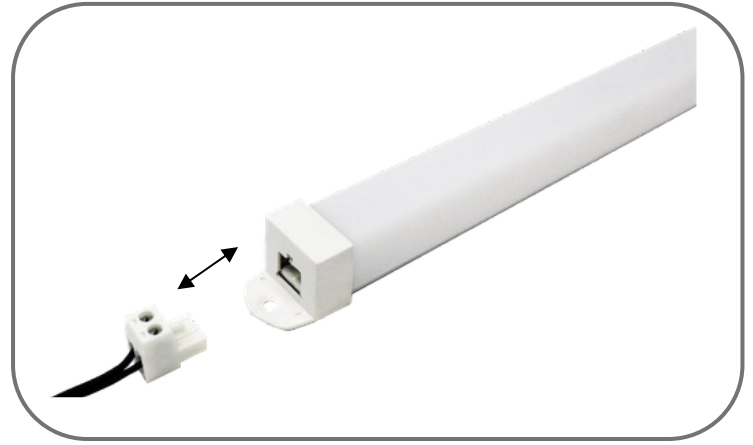
Step 9: Use dikes to cut aluminum to length as close as possible to the Tiger Paw on opposite end of LED strip. Snip each raised edge, and bend aluminum back and forth until fully separated.



Step 10: Cut plastic lens to length using table saw. Or use dikes to snip each edge, then gently bend plastic back and forth until fully separated.



Step 11: Line up plastic lens with aluminum channel, and snap into place. Slip desired end caps onto each side of closed fixture. A dab of super glue may be used to secure caps in place if desired.



Step 12: If using a Tiger Paw Screw Terminal, ensure that end caps line up with wire input port, testing connection before proceeding to install.



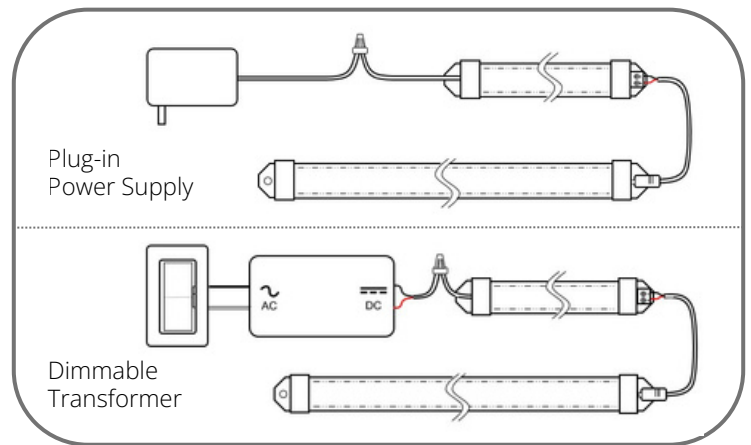
Step 13: To install, secure Radiant Edge panel onto desired surface using screw holes on end caps. Or if preferred, end cap tabs may be bent and removed, and mounting clips used for support every 12".



Step 14: If using plug-in Tiger Paws, simply insert 3.5mm x 1.3mm plugs from Inspired LED cables or power supplies into female input jacks.



Step 15: If using Tiger Paw Screw Terminals, insert wire port back into end connector, then run cables back to power supply or hardwire transformer, making connections using wire nuts.



Step 16: Follow corresponding instructions for incorporating switches, dimmers, and transformers to complete the LED system. See Inspired LED power charts for information on wattage and voltage drop.