

INSTALLATION INSTRUCTIONS | Specflex Architectural Strip Light Dry Location Series

The important safeguards and instructions here are not meant to cover all possible conditions and situations that may occur.

IMPORTANT SAFETY INSTRUCTIONS:

- **WARNING: RISK OF FIRE AND ELECTROCUTION**
- **WARNING: TO AVOID FIRE, SHOCK OR DEATH**, disconnect power at circuit breaker before installing or servicing device
- **TO AVOID SHOCK OR ELECTROCUTION**, product must be grounded
- **READ AND SAVE THESE INSTRUCTIONS FOR LATER USE**
- Product should be installed by a qualified electrician
- All electrical connections must be in accordance with local and National Electrical Code (NEC) standards.
- Product must be mounted in locations and at heights and in a manner consistent with its intended use, in compliance with National Electrical Code and local codes and where it will not readily be subject to tampering by unauthorized personnel
- Driver is to be installed in accordance with Article 450 of the National Electric Code
- Prior to installation, check the label and ensure the Driver has the proper input voltage and wattage for the job
- Driver must be installed in a well-ventilated area, free from explosive gases and vapors. Proper operation requires for free flow of air
- Use Only with Class 2 Power Unit
- Dry Location Only
- For all wire connections use only UL Listed Wire Nuts and Connectors of suitable size and type
- Wear rubber soled shoes and work on a sturdy wooden or non-conductive ladder
- Double check all connections and screws, ensuring they are tight and correct
- Most dwellings built before 1985 have supply wire rated at 60°C
- Supply conductors (power wires) connecting the fixture must be rated at minimum of 90°C
- Installing contrary to instructions may cause unsafe conditions
- If the product has any visible damage do not install it
- Call the Technical Support department at ConTech Lighting with any installation questions: 847.559.5500

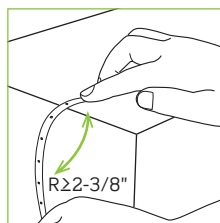
PRECAUTIONS

- **NOTE:** DO NOT Connect Strip Light directly to line voltage power
- **NOTE:** Always test Strip Light operation before installing
Connect to power supply to ensure it is working properly and no damage has occurred during shipping
- Power Supply is selected based on the power and length of the selected Strip Light and run length
NOTE: Ensure the Power Supply load is 30% higher than the strip's power
- Ensure Power Supply is compatible with the selected Strip Light model and wattage, plus the anticipated run length
- When the selected Strip Light power is over 4W/Ft, it is advised to install the strip in an Aluminum Mounting Channel which helps with heat dissipation which helps to extend the Strip Light lifetime

FIGURE 1

- Do not fold, crease, twist, or bend the Strip Light at sharp angles
- Use an angle greater than or equal to 90° when there is an LED chip on the corner while placing the tape in a concave position
- Use an angle greater than or equal to 60° when there is no LED chip on the corner while placing the tape in a concave position
- Use an angle greater than or equal to 60° when there is an LED chip on the corner while placing the tape in a convex position. In the convex position, the angle should not reach 90°

CORRECT



INCORRECT

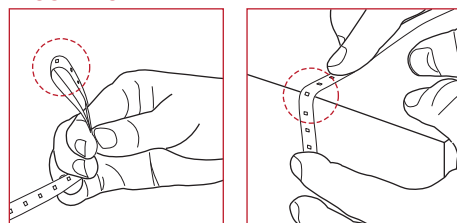


FIGURE 2

- The marked cut lines along the Strip Light are indicators of where the strip can be cut: **CUT ONLY ON THE MARKED CUT LINES**
- **DO NOT CUT STRIP LIGHT WITH POWER CONNECTED**

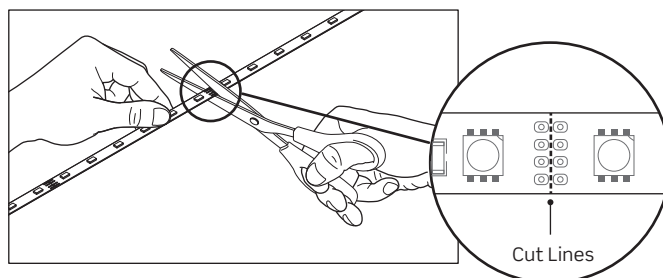
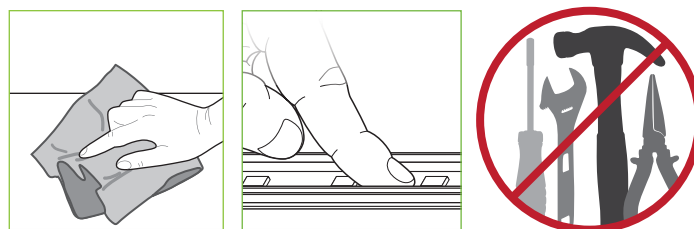


FIGURE 3

- Thoroughly clean the area where the Strip Light will be installed with isopropyl or denatured alcohol
- When installing, avoid excessive pressure on the LEDs and Resistors
- Using fingers only, firmly press down, making sure Strip Light is laying completely flat, any lifting will cause noticeable changes in light output
- **NOTE:** DO NOT use any tools to install the Strip Light to a surface, this will cause damage to the Strip Light



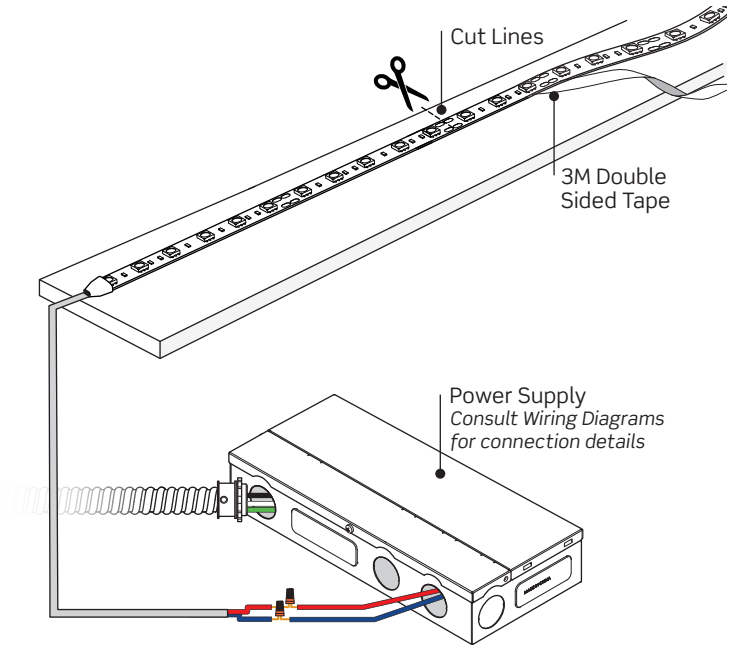
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INSTALLATION PROCEDURE

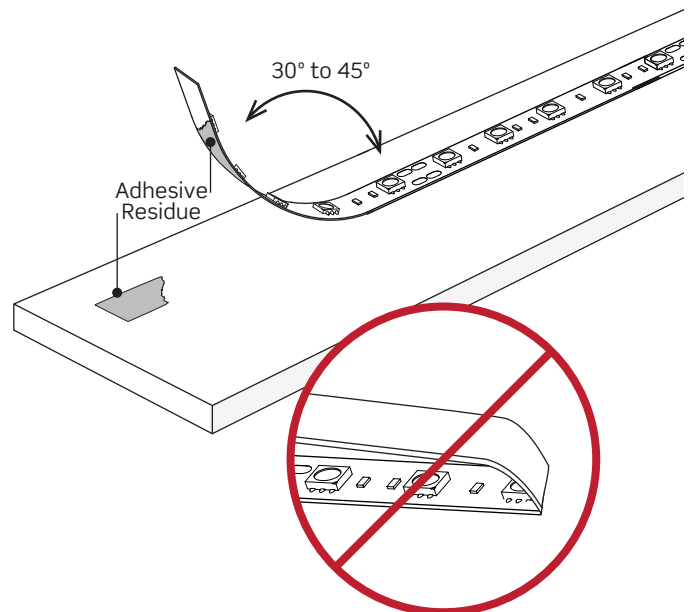
ADHESIVE BACKING

- Install and secure the Power Supply in a well-ventilated area, free from explosive gases and vapors; proper operation requires free flow of air
- Ensure the Power Supply meets the full load
- Determine the amount of Strip Light needed for the application. If needed, cut the Strip Light to the required length, cutting only on the marked cut lines
- Connect Strip Light to the Power Supply via chosen terminal end:
 - Female Barrel Connector
 - Male Barrel Connector
 - Factory Soldered Lead Wires
- Consult Wiring Diagrams for details
- Thoroughly clean the area where the Strip Light will be installed
- Carefully start removing the paper backing from the 3M™ Double Sided Tape at the Connector end of the Strip Light; making sure not to remove the adhesive from the Strip Light itself
- Using fingers only, gently press the Strip Light down onto the chosen flat mounting surface, making sure Strip Light is laying completely flat, any lifting will cause noticeable changes in light output
- Avoid excessive pressure on the LEDs and Resistors
- **NOTE:** DO NOT use any tools, this will cause damage to the Strip Light
- Do not remove all the paper backing at once; remove slowly down the length of the Strip Light, gently pressing the Strip Light into place as you go
- Turn on the power to light the Strip Light up



REPOSITIONING THE STRIP LIGHT

- Gently pull up and away from the surface at a 30° - 45° angle to avoid damaging the Strip Light
- **NOTE:** Do not pull the Strip Light back on top of itself. This damages the strip and may cause it not to function for other applications.
- If relocating the Strip Light, make sure that the 3M Double Sided Tape on back of the Strip Light is remaining after removal and covers the entire strip length
- The 3M™ Double Sided Adhesive Tape isolates the Strip Light from the mounting surface
- Damaged or inconsistent adhesive may cause the contacts on the back of the Strip Light to come in contact with the conductive heat sink which will cause the Strip Light to malfunction
- If needed, remove the adhesive residue from back of the Strip Light using an adhesive remover, denatured alcohol, or equivalent applied to the corner of a clean, dry towel
- Remove a few inches of the residue from one end of the back of the Strip Light by gently buffing the area containing the residue with the prepared towel until it is completely removed
- Attach new adhesive tape to the back of the Strip Light, applying moderate pressure to affix the tape
- Continue this a few inches at a time until the entire length of new adhesive tape is attached to the back of the Strip Light



If repositioning Strip Light, do not pull it back onto itself. This damages the strip and may damage the tape

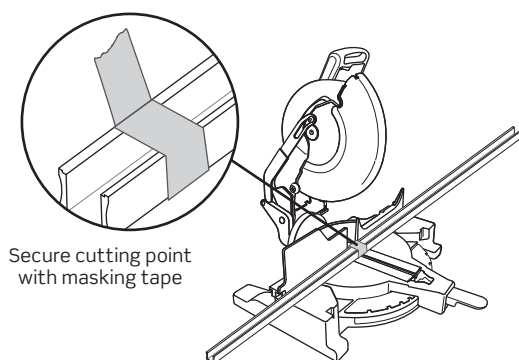
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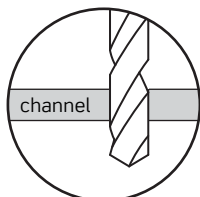
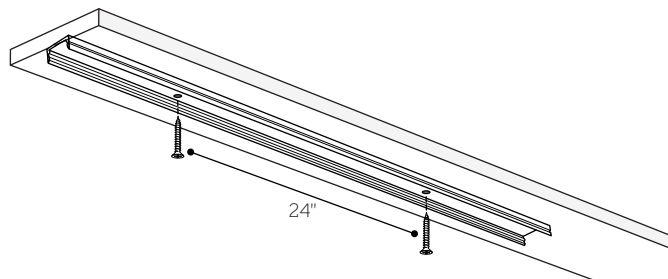
MOUNTING CHANNELS

- **ALWAYS WEAR SAFETY GLASSES WHEN CUTTING THE MOUNTING CHANNELS**
- Determine the length of Mounting Channel needed for the application; standard Channel length is 6 feet
- Before cutting the Channel, secure the cutting point with masking tape
- Cut Mounting Channel using a Hacksaw or Miter Saw with the appropriate blade for cutting Aluminum

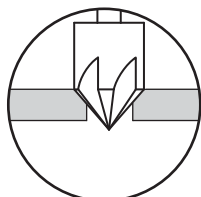


MOUNTING CHANNEL: SURFACE MOUNT

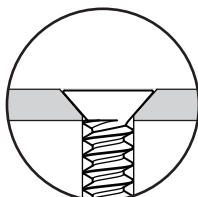
- Mark mounting locations along the inside bottom of the Channel; recommended max. distance between locations is 24-inches
- Drill counter sunk holes through the Channel at the marked points; Screws must be flush with inside bottom of Channel
- Ensure there are no burrs around the holes after drilling as they can damage the Strip Light and Power Cables
- Screw Channel through counter sunk holes directly onto the mounting surface, ensuring Screws are flush with the inside bottom of Channel
- Thoroughly clean the inside of the Mounting Channel, then install Strip Light directly into the channel



Drill through Channel



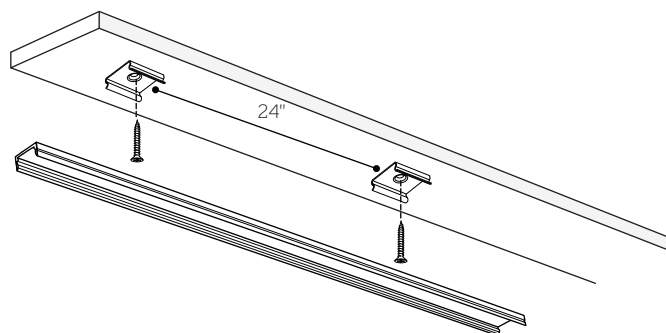
Countersink Holes



Tighten Screws below Channel surface

MOUNTING CHANNEL: MOUNTING CLIPS

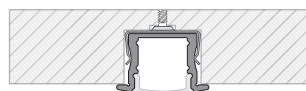
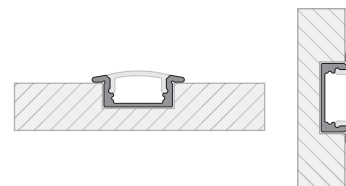
- Mark Mounting Clip locations along Strip Light run; recommended max. distance between clips is 24-inches
- Secure Clips with screw(s) directly onto mounting surface
- Install Strip Light directly into the Mounting Channel
- Snap Mounting Channel into Clips



MOUNTING CHANNEL: RECESSED

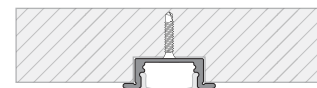
- Determine which Recessed Mounting Channel is to be used and the direction it will be mounted
- If mounting facing upwards/on top of surface or horizontally, no Mounting Clips are required; it is advised to secure the Mounting Channel into the slot using Mounting Clips, with Double-Sided Adhesive Tape, or by drilling screws directly through the back of the Channel into the slot
- If mounting facing downwards/on the bottom of the surface, Mounting Clips secured with Screws or securing the Channel directly through the back of the Channel into the slot is required to secure the Channel within the slot
- If no Mounting Clips are available for the chosen Channel and mounting direction, secure Channel into path with Double-Sided Adhesive Tape or by drilling screws directly through the back of the Channel into the slot
- Determine the width and depth of the slot to be routed into the surface; Recessed Mounting Channel Dimensions can be found on page 4
- After routing, clear the slot of dust and debris
- Install Strip Light directly into the Mounting Channel
- Place Endcaps on Mounting Channel before inserting into the routed slot
- Affix the Mounting Channel into the slot and install the Strip Light directly into the Channel

If mounting facing upwards or horizontally, no Mounting Clips or Screws are required



If mounting downwards, Mounting Clips secured with Screws or securing the Channel directly is required

If Mounting Clips are not available, secure Channel into path with Double-Sided Adhesive Tape or by screwing the Channel directly into the slot

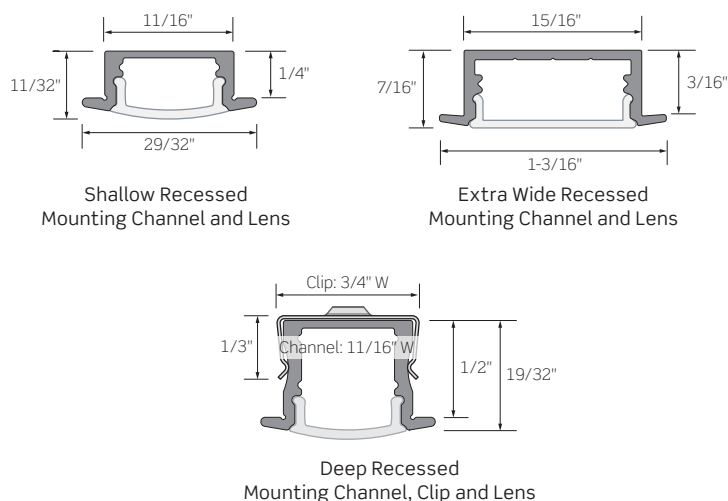


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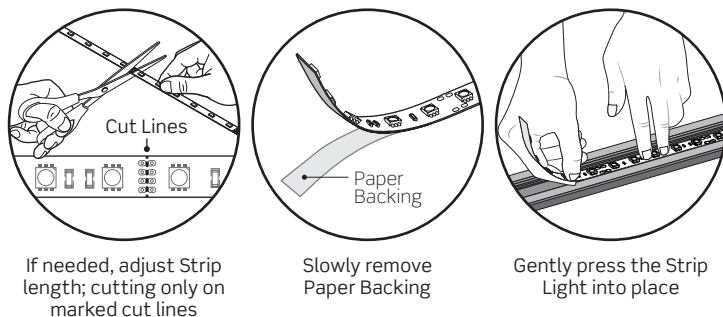
INSTALLATION PROCEDURE

RECESSED MOUNTING CHANNEL DIMENSIONS



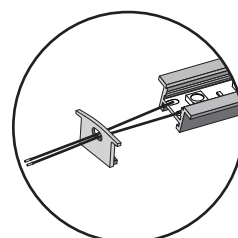
PLACING STRIP LIGHT INTO THE CHANNEL

- If needed, cut the Strip Light to the required length, cutting only on the marked cut lines
- Carefully start removing the paper backing from the 3M Double Sided Adhesive Tape, making sure not to remove the adhesive from the Strip Light itself, making sure the Strip Light is laying completely flat, any lifting will cause noticeable changes in light output
- Using fingers only, gently press the Strip Light down into the Channel, making sure there are no air bubbles that can cause surface irregularities
- Avoid excessive pressure on the LEDs and Resistors
- **NOTE:** DO NOT use any tools, as this will cause damage to the Strip Light
- Do not remove all the paper backing at once; remove slowly down the length of the Strip Light, gently pressing the Strip Light into place as you go

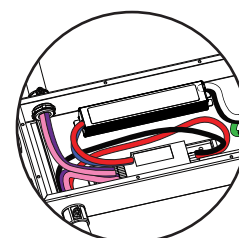


FINISHING THE INSTALLATION

- Install and secure the Power Supply in a well-ventilated area, free from explosive gases and vapors; proper operation requires free flow of air
- Ensure the Power Supply meets the full load of the run
- Feed Strip Light Power Cables through the opening in the single Endcap
- Connect Strip Light to the 24VDC Class 2 LED Driver/Power Supply via chosen terminal end:
 - Female Barrel Connector
 - Male Barrel Connector
 - Factory Soldered Lead Wires
- Consult Wiring Diagrams for details
- Factory Soldered Barrel Connectors are not compatible with Open Endcaps, but may be modified in the field
- Drill or notch the Endcap opening to allow Barrel Connector to fit through or to allow the Endcap to slide over the Barrel Connector Cable



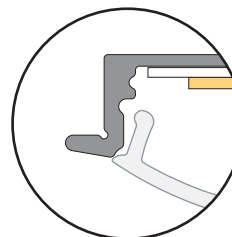
Feed Power Cables through the opening in the Endcap



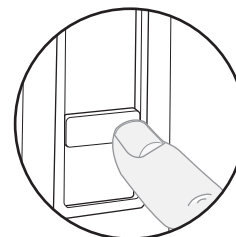
Connect Strip Light to the 24VDC Class 2 LED Driver/Power Supply

LENS AND ENDCAPS

- Align the Lens starting at one corner of the interior of the Mounting Channel, carefully snap the other corner in place
- Once one corner is fully in place apply even pressure on both side of the Lens at the same time to fit the remaining Lens length in place
- Install closed endcap by snapping into place
- Turn on the power to light up the Strip Light



Align Lens in one corner then snap the other corner into place



Turn on Power