GMLighting®

INSTALLATION INSTRUCTIONS
Linear Straight and Corner Mud-In Channels

MODELS: LED-CHL-MI-ST8, LED-CHL-MI-ST8-FC90, LED-CHL-MI-ST8-IC90, LED-CHL-MI-ST8-OC90

⚠ WARNING!

BEFORE YOU START:
- Please check local electrical codes before beginning
- Turn power off before installing
- Make sure to use properly rated wire

TOOLS NEEDED:
- Pencil
- 4 foot long straight edge/ruler
- Tape Measure
- Utility Knife
- Masking Tape
- Drywall Saw.
- Drywall screws and bits
- Drill
- Miter saw, sharp blade for aluminum and plastic
- Drywall Tape
- Plaster/Joint Compound
- 12" Plaster Trowel
- Finishing Trowel
- Sand Paper (150, 200 grit)
- Primer & Paint

PARTS INCLUDED:
- Mud-In Straight or Corrner Channel (corners come with 4 joiners, set screws and hex tool)

OPTIONAL:
- LED-CHL-MI-ST8-JC (joiners, set screws, hex tool)
- LED-CHL-MI-ST8-JLENS (8ft lens section)

SELECT IN-WALL RATED WIRE FOR YOUR TAPE

NOTE: WE RECOMMEND THAT YOU ENGAGE A QUALIFIED AND LICENSED ELECTRICIAN. FOR INSTALLATION INSTRUCTIONS ON INSIDE AND OUTSIDE CORNER OR COVE CHANNELS, SEE WEBSITE.

USE 1/2" OR 5/8" THICK DRYWALL ONLY WITH THIS PRODUCT.

1. BEFORE YOU START, DETERMINE IN YOUR CHANNEL LAYOUT WHERE POWER SOURCE WILL BE MOUNTED AND TAPE/CHANNEL'S WIRE ROUTING DISTANCE TO POWER SOURCE. BE ADVISED THAT SOME POWER SOURCE'S MUST BE MOUNTED IN EITHER A VERTICAL OR HORIZONTAL ORIENTATION. INSIDE AND OUTSIDE CORNER MUD-IN CHANNELS ARE MOUNTED IN A 90° ANGLE SURFACE. MAKE SURE THAT DRYWALL SURFACES MEET AT A RIGHT ANGLE.

POWER SUPPLY CONNECTIONS MUST BE ACCESSABLE FOR MAINTENANCE. Follow NEC practices to properly mount power supplies.. Mount power supply in nearby cabinet or closet or utility area. (FIG. 1).

2. CREATE THE LAYOUT AND DETERMINE LOCATION:
Consult the instructions that come with the LED Tape being used to determine layout of cut tape lengths and connector combinations. **IMPORTANT: Confirm layout of tape and connectors to measure exact dimensions. Note that outer length of each section will need to fit inside channel sections and around corners. The channel will need to be cut to fit the LED tape and connectors sections.** Use a pencil to mark out 2 lines spaced 1.25" apart to fit the center channel sections of the straight sections and corners that will be recessed. Do this for the entire slot length of each section **(FIG. 2).**

3. CREATE MOUNTING CHANNEL OPENING:
Cut slots in the drywall using pencil marks as your guide. For 1/2"-5/8" drywall, the channel will fit over wall studs.

4. CUT STRAIGHT CHANNEL TO SIZE:
Fit both corners into slots at a time. Use tape measure find length of straight sections (FIG. 2). Align lens end with channel end. Apply masking tape to hold lens into place. Cut one or more straight sections with lens to fit the distance measured. Repeat for all straight sections. Use a sharp blade miter saw designed for cutting aluminum and plastic. Remove tape after cut is made.

5. CONNECTING AND MOUNTING CHANNELS:
Joiners align and connect 2 channel sections securely together. Joiners work for any combination of straight and corner sections. Slide joiners into slots located on each side of channels. A Hex key is included to tighten set screws. Insert and tighten 4 screws into each joiner to lock in position (fig. 10). Add end caps at channel ends (**FIG. 8 & 9)**. Position end cap with hole at location where power will enter channel. Get help to lift and insert the assembly into the drywall slot. The backside of the perforated metal flange should be up against the drywall. Mark all stud locations on surfaces near the slot opening with masking tape for reference. Install drywall screws through the perforated flange every 8-16 inches. It is best to fasten into studs for the most secure installation **(FIG. 3)**. Remove lenses and put masking tape over opening of channel to keep plaster and dirt out. Keep tape inside outer edges of channel.

6. PREPARE AND APPLY DRYWALL COMPOUND:
Apply drywall tape over all perforated metal areas and next to ends of channel **(FIG. 4)**. Using a trowel and drywall compound, mud-in from edge of channel out into surface material, feathering out compound. Let dry, sand until smooth. Repeat process if needed.

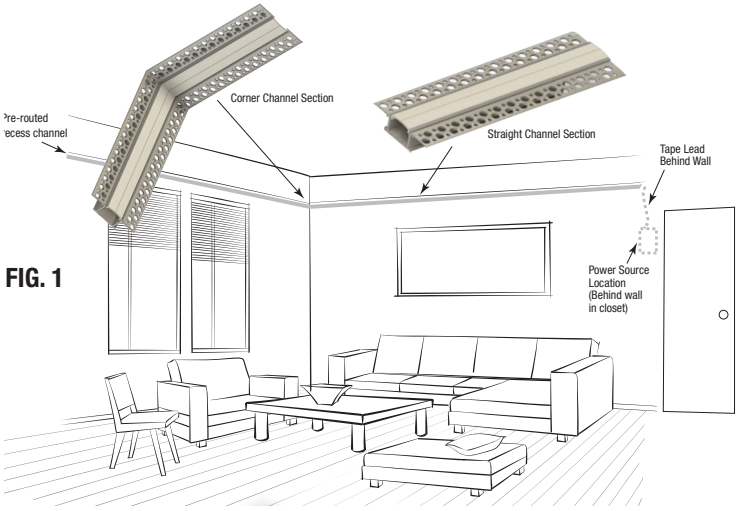

FIG. 1

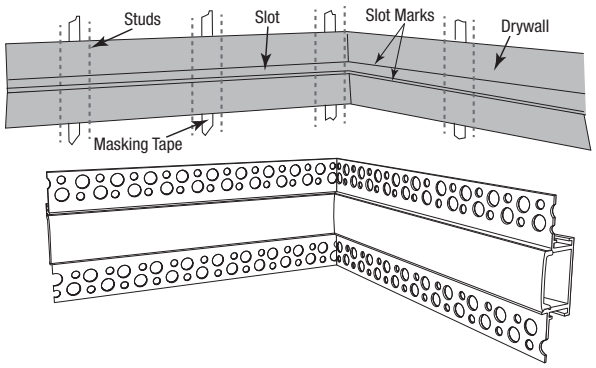

FIG. 2

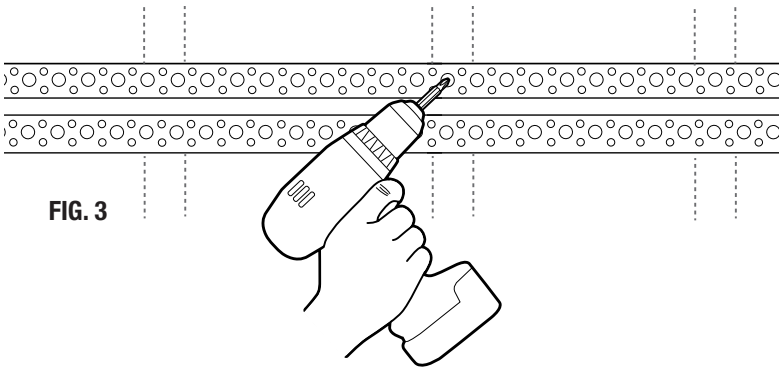

FIG. 3

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7. PRIME AND PAINT:
Use primer paint to cover the drywall compound. Let dry and coat with desired paint choice.

8. PREPARE & INSTALL LED TAPE:
See specific LED for instructions for added details. Remove masking tape **(FIG. 5)** and wipe out dust from channel. Channel should be clean and dry.Attach inwall-rated wire to the end of the LED tape chosen with connectors for that tape. Match the number of conductors to the tape conductors. Start at power entry point and insert power lead into end cap hole. Peel adhesive liner from LED tape and position end of tape at end of channel. Remove tape liner and press into place from one end to the other. Repeat for all sections of tape.

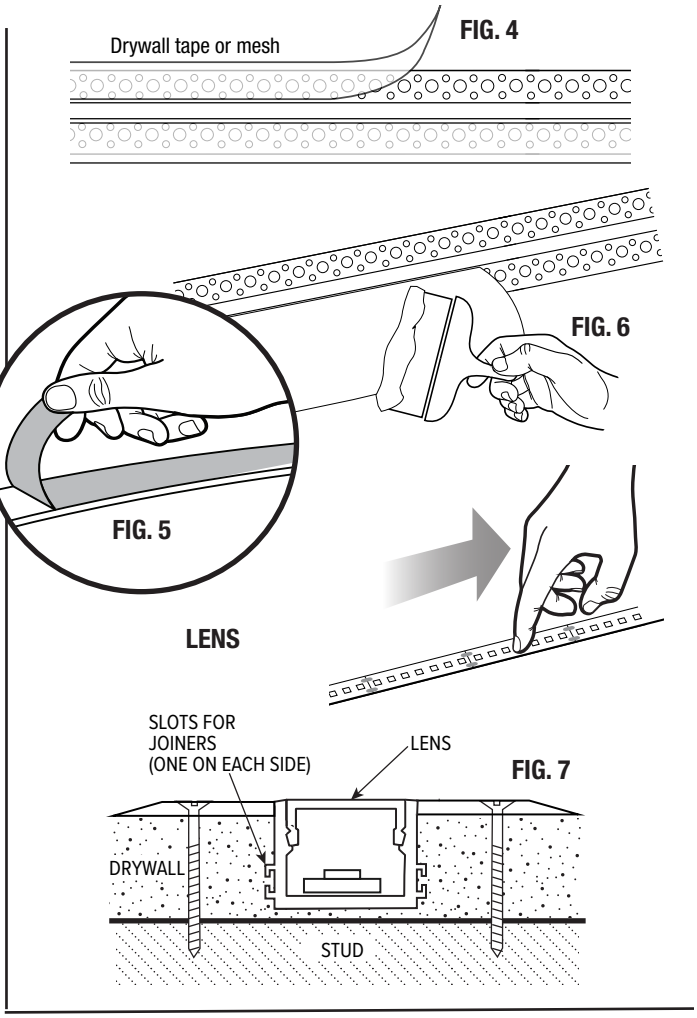
9. WIRE POWER SUPPLY AND TEST TAPE
WARNNING: SHOCK HAZARD - TURN OFF CIRUIT POWER BEFORE CONTINUING. See specific LED driver instructions for added details. Run LED tape leads to power supply location and connect to outputs. Run building power to the driver location and connect to input leads. Turn on power, switch or dimmer. Test LED tape for proper operation. If not working, check all connections and power supply.

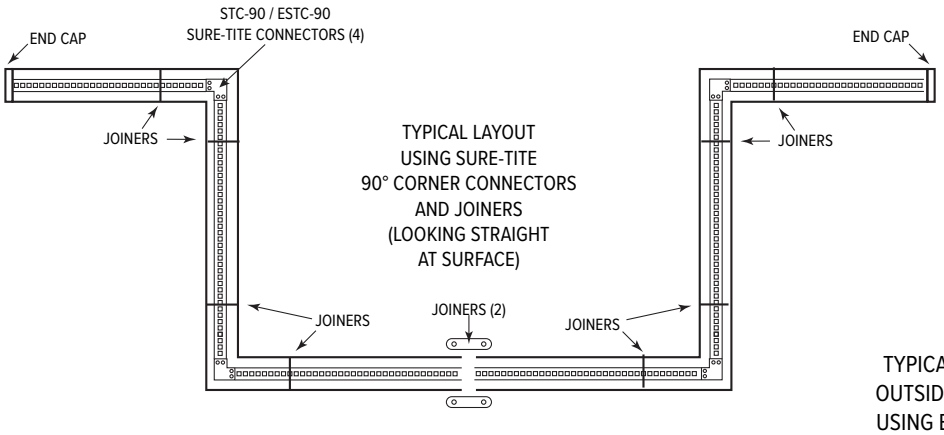
10. INSTALL LENS
Wipe each lens section clean and removed the pre-mask. Install corner sections first to get miter corners tight. Next, install straight sections by starting at corners and pressing in place from one end to the other.

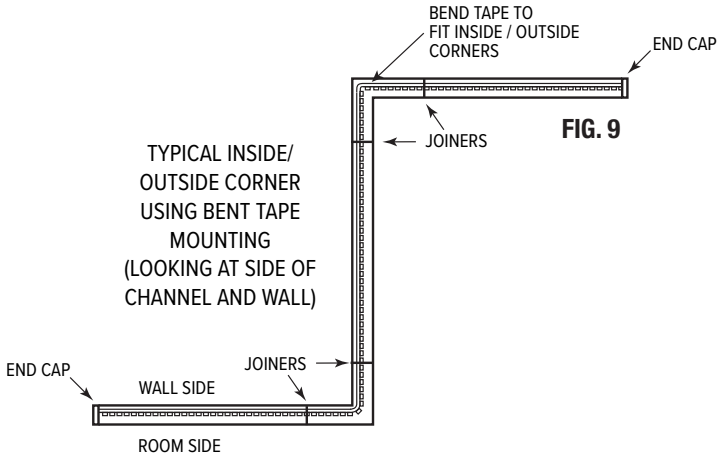
TAPE MOUNTING OPTIONS:

1. FLAT CORNER CHANNEL MOUNTING: TAPE CAN BE MOUNTED FACING OUTWARD BY USING SURE-TITE STC-90 OR ESTC-90 90° CORNER CONNECTORS (NOTE - DIAGRAM SHOWS JOINERS USED TO CONNECT LONG CHANNEL RUNS) (FIG. 8).

2. INSIDE / OUTSIDE CORNER MOUNTING: SIMPLY BEND TAPE AROUND CORNERS, MAKING SURE THAT TAPE DIODES FACE OUT TO LENS (FIG. 9).







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