






Remote Driver



GRIDBar 15/16"

GRIDBar Series

Warnings

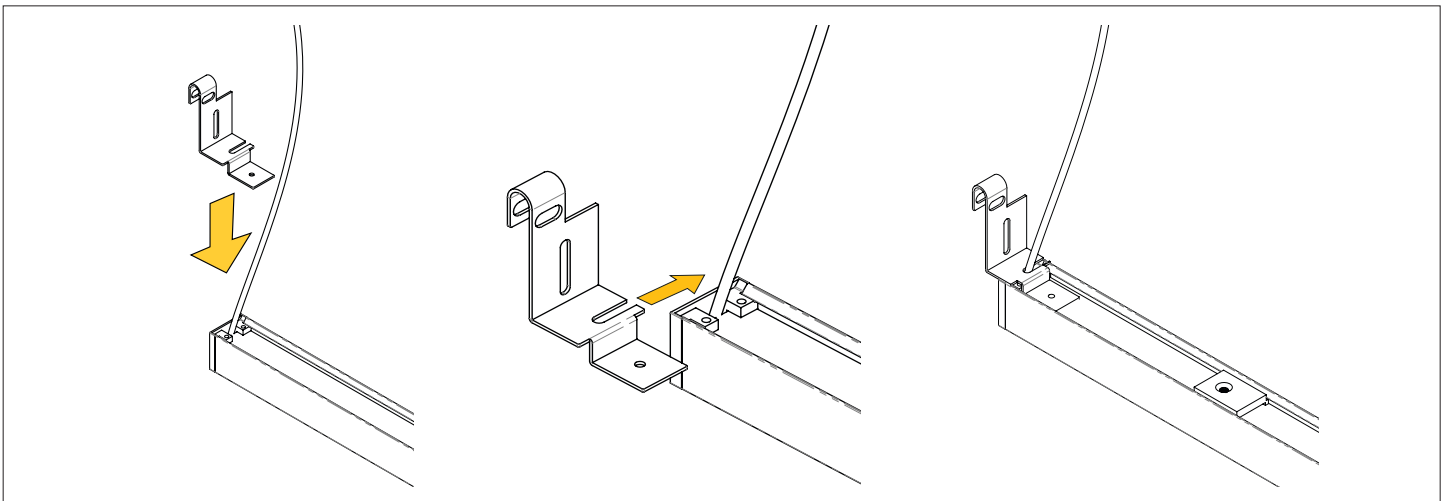
-  Risk of fire and electrical shock
-  Turn off power at breaker
-  Installation requires knowledge of electrical systems and should be installed by a qualified electrician. If not qualified, **DO NOT ATTEMPT INSTALLATION.**

Care Instructions

-  Wipe with a soft cloth only
-  Always avoid using harsh chemicals and/or cleaners

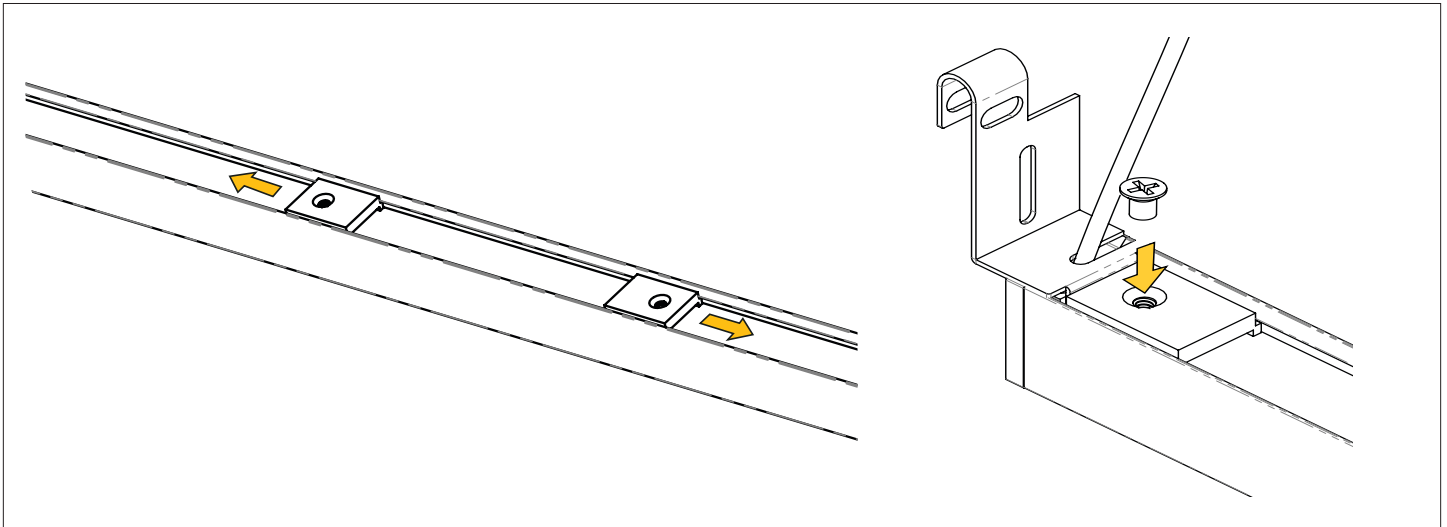
STEP 1 — Attach Mounting Clips

Attach the Mounting Clips (provided) to the GRIDBar1 fixture. Slide the wire through the slot of the clip (if needed) so the wire is centered.



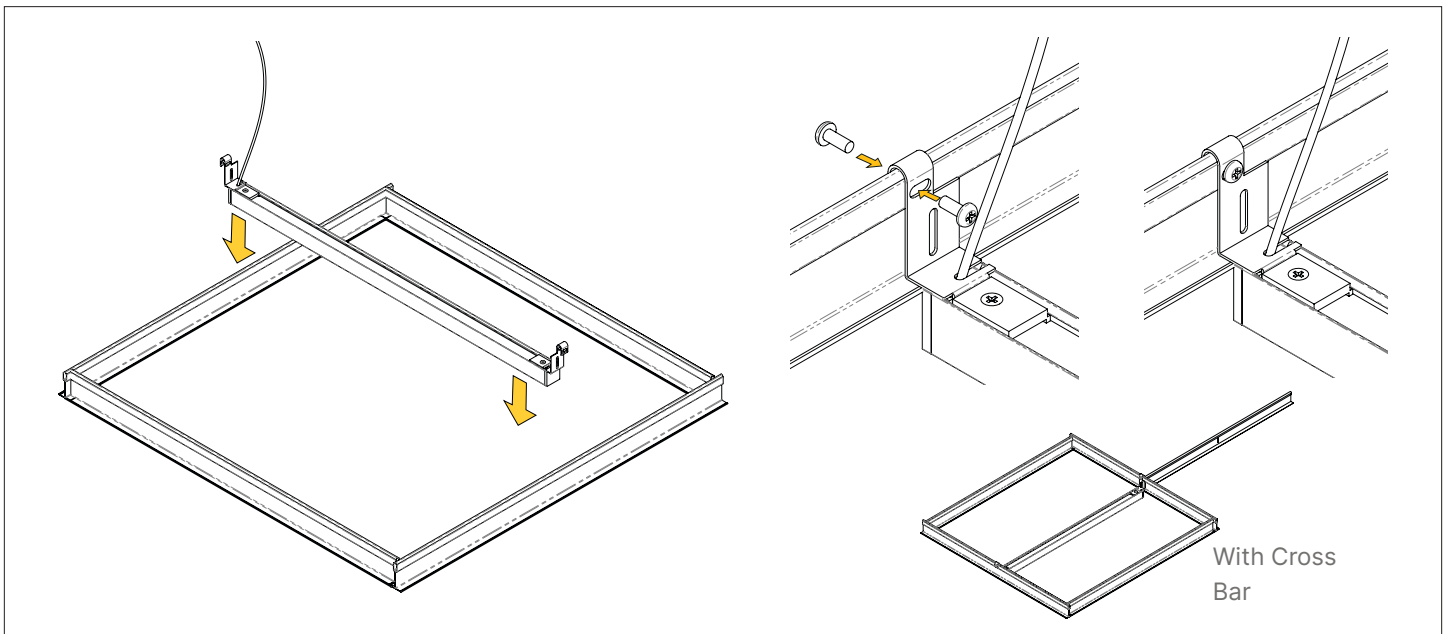
STEP 2 — Mounting Clip Placement

Slide the threaded brackets (provided) to each end of the GRIDBar1 fixture until they engage with the Mounting Clips. Fasten with screw (provided).



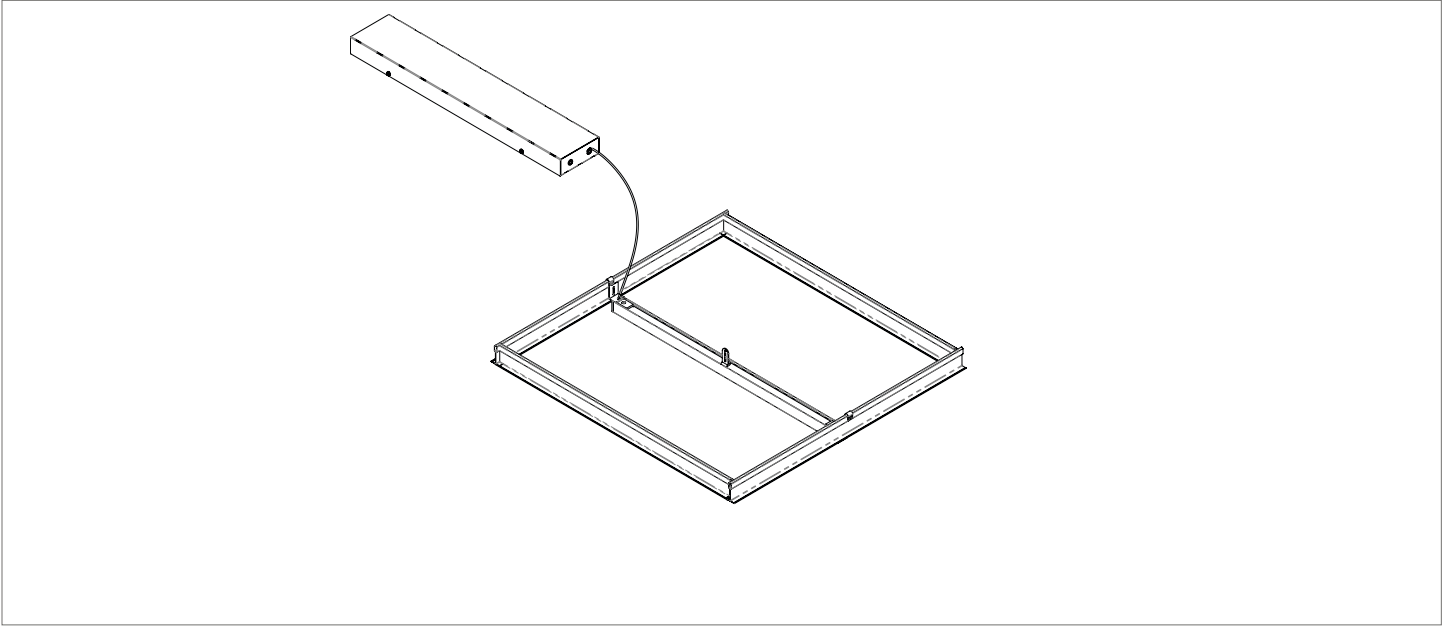
STEP 3 — Fixture Mounting

Place the GRIDBar1 fixture onto the TBar using the Mounting Clips. If needed, secure the Clip to the TBar through the top slot with appropriate hardware on each end of the fixture.



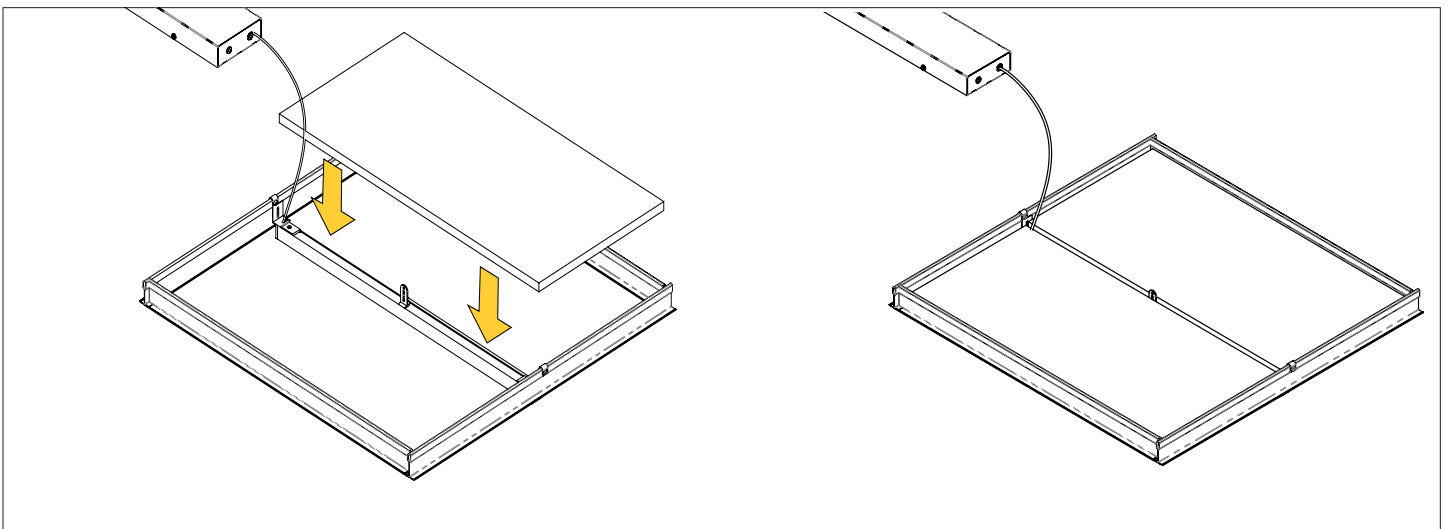
STEP 4 — Install Remote Driver Box

Remote driver box can be located up to 100 feet from fixture. Connect DC Feed from fixture to the driver box (provided by other). Connect AC Feed to the driver box (provided by other). The driver box has 7/8" knock out.



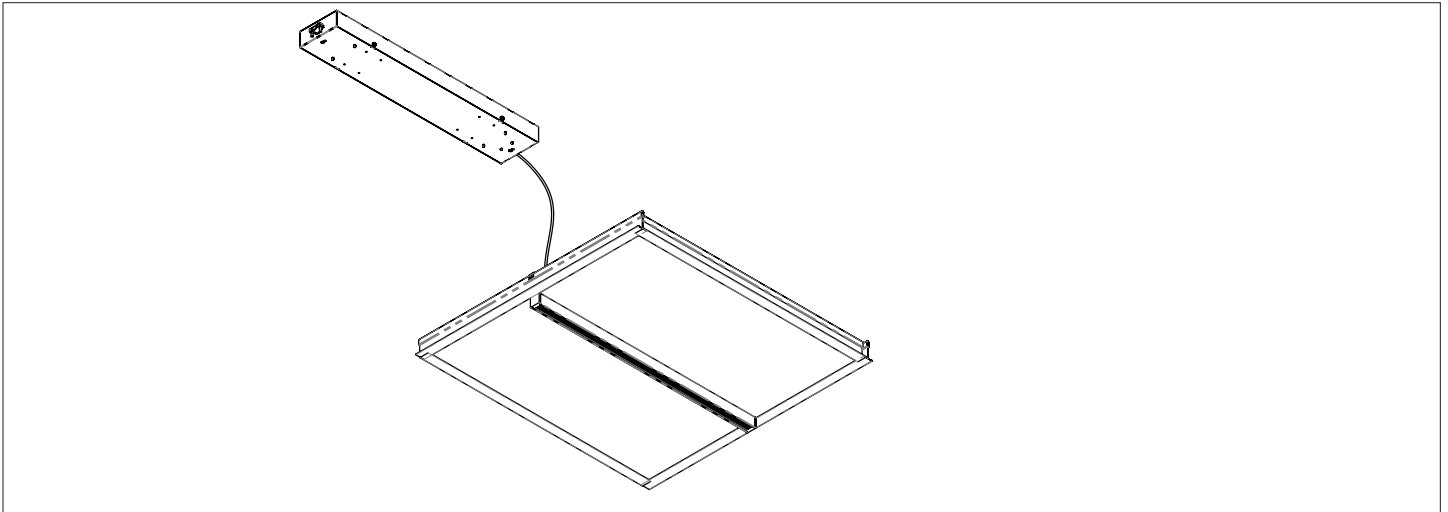
STEP 5 — Install Ceiling Tiles

Install the ceiling tiles on either side of the installed fixture.



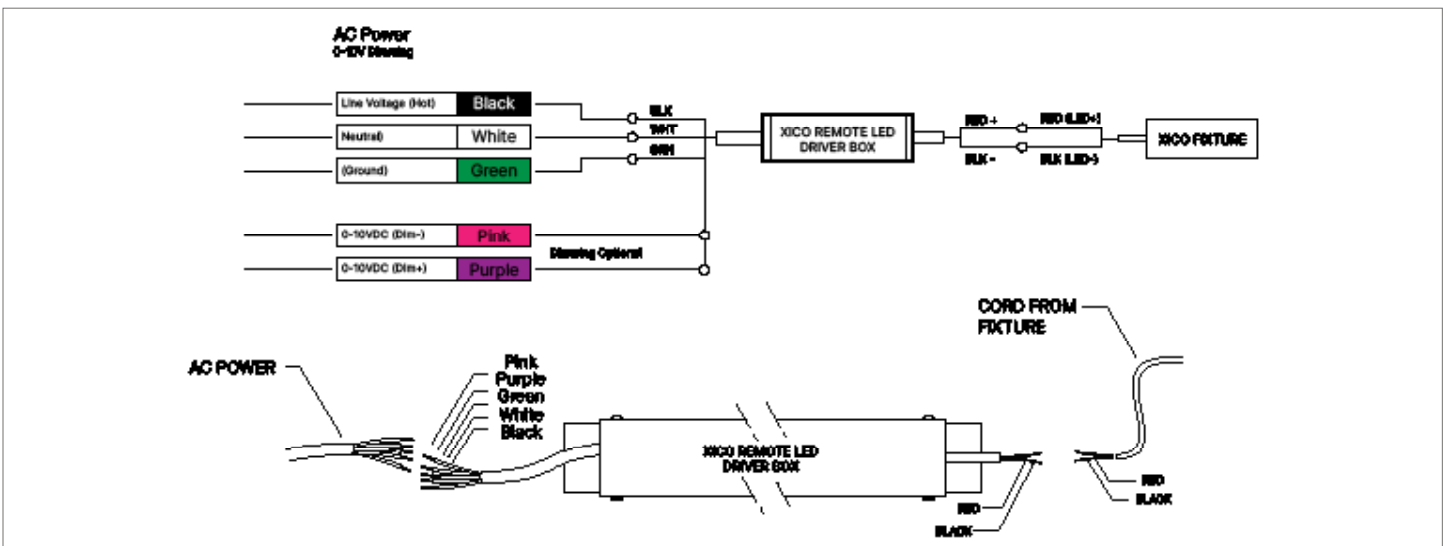
STEP 6 — Complete

Restore Power.



Wiring Guide

Wire the Power Feed End to the J-Box and secure the Canopy to the J-Box or Power Source.



Voltage Drop

24V DC and Wire Length Chart (Driver to Fixture)

FlexGrid LED Fixture with Remote Drivers

When installing a FlexGrid fixture with a remote driver and the distance is a long way from the fixture, it is important to properly specify the correct wire gauge (AWG/ or thickness of wire) for the distance of wire required. The maximum remote mounting distance is a function of the total voltage-drop across the output of the LED Driver.

How to Use the Chart

Step 1: Calculate the total wattage of the LED lighting system (round up to the nearest 10 W).

Step 2: Find the wattage in the top row and follow the column down to maximum length (round up) of wiring between the LEDs and the power supply.

Step 3: Look to the left column for the wire gauge size required to prevent voltage drop over 3%.

| Maximum Cable Length from Remote Driver to Fixture — 24 VDC Driver | | | | | | | | | | |
|--|---------------------------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| Wire Gauge | Total Fixture Wattage (W) | | | | | | | | | |
| | 10 W | 20 W | 30 W | 40 W | 50 W | 60 W | 70 W | 80 W | 90 W | 100 W |
| 18 AWG | 134 ft | 68 ft | 45 ft | 33 ft | 27 ft | 22 ft | 19 ft | 17 ft | 15 ft | 14 ft |
| 16 AWG | 215 ft | 109 ft | 72 ft | 54 ft | 43 ft | 36 ft | 31 ft | 27 ft | 24 ft | 22 ft |
| 14 AWG | 345 ft | 174 ft | 115 ft | 86 ft | 69 ft | 57 ft | 49 ft | 43 ft | 39 ft | 36 ft |
| 12 AWG | 539 ft | 272 ft | 181 ft | 135 ft | 108 ft | 90 ft | 77 ft | 68 ft | 62 ft | 56 ft |
| 10 AWG | 784 ft | 397 ft | 263 ft | 197 ft | 158 ft | 131 ft | 112 ft | 98 ft | 95 ft | 82 ft |

Remote Driver to Fixture Example

Calculate total load

An 8 ft fixture using 4 W/ft requires a total of 32W. Round up to the nearest load of 40W.

Find distance from driver to Load

Let's assume the distance is 40 ft from the driver to the fixture. Round up to the nearest distance of 54 ft.

Choose wire gauge

It's recommended to install 16 AWG wire between the driver and fixture to eliminate noticeable voltage drop.

