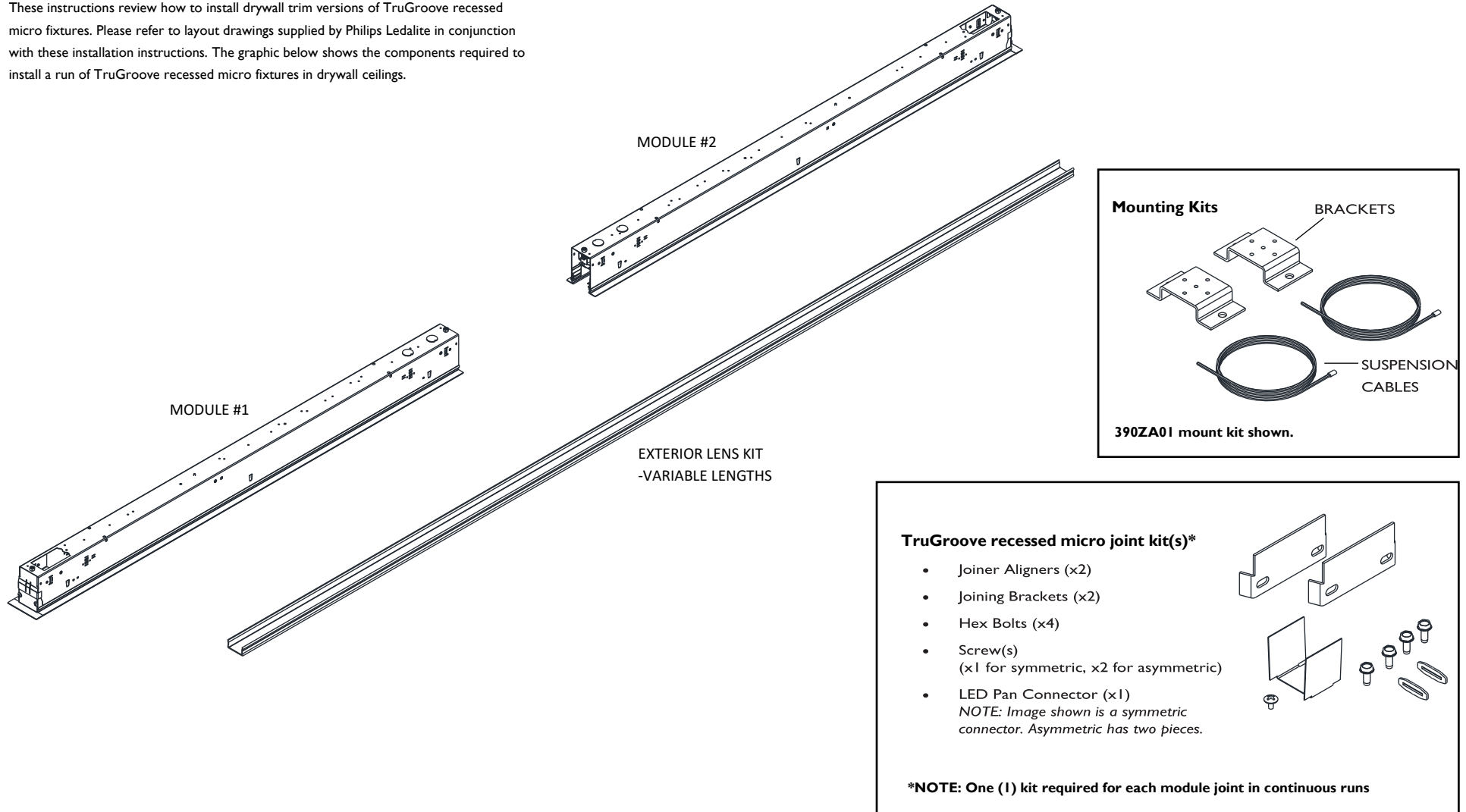


System Overview

These instructions review how to install drywall trim versions of TruGroove recessed micro fixtures. Please refer to layout drawings supplied by Philips Ledalite in conjunction with these installation instructions. The graphic below shows the components required to install a run of TruGroove recessed micro fixtures in drywall ceilings.



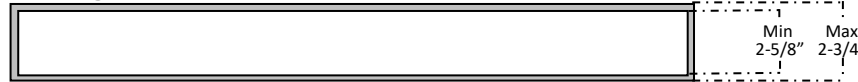
! ATTENTION: Install in accordance with national and local building and electrical codes. **Page 1**

Framing & Drywall Notes

! IMPORTANT

- “C” Channels (or equivalent) must be properly braced to ensure accuracy of cutout in drywall.
- Use appropriate tools to outline specified dimensions of ceiling cut-out to ensure straightness of cutting.
- Lens will not insert properly if fixture trim has mud or paint build-up.

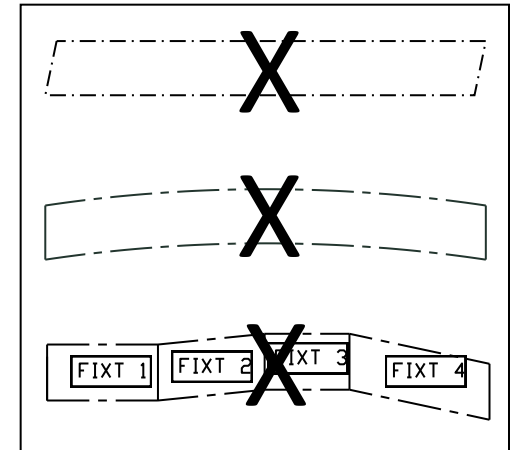
Ceiling Cut-out Details



! IMPORTANT

- The straightness and accuracy of the cut-out in the drywall is crucial in ensuring proper fit for the fixture.
- The cut-out MUST fall within the specified tolerances.

AVOID



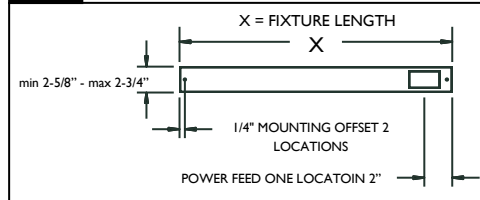
FIXT = FIXTURE MODULE

NOTE: TruGroove recessed micro modules are designed for installation after ceiling construction

Prepare Ceiling: Standalone Units

1. Determine fixture location and fixture type. Refer to figure A for fixture length and mount locations. Install mount brackets and suspension cables supplied as shown on page 3.
2. Determine power feed location(s) - refer to figure A. Install power feeds as required and drop below installed ceiling height.
3. Build ceiling frame around fixture cutout to 2-5/8" to 2-3/4" width as shown in figure A and required cut-out length.

A Ceiling Dimensions: Standalone Units



For standalone units, the cut-out in the drywall ceiling should fall within the tolerances shown below.

Cutout Width: Min 2-5/8" - Max 2-3/4"

Cutout Length:

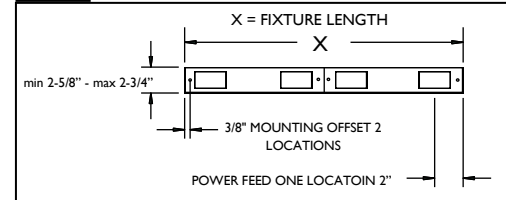
2ft	23-7/8" + 1/4"	3ft	35-7/8" + 1/4"
4ft	47-3/4" + 1/4"	5ft	59-7/8" + 1/4"
6ft	71-5/8" + 1/4"	8ft	95-5/8" + 1/4"

Important: For 2ft standalone fixtures, end framing members must be installed 1" beyond ceiling cut-out.

Prepare Ceiling: Continuous Runs

1. Determine fixture location and fixture type. Refer to figure B for specific mount locations. Also see layout drawings provided. Install mount brackets and suspension cables supplied as shown on page 4.
2. Determine power feed location(s) - refer to layout drawings. Install power feed as required and drop below installed ceiling height.
3. Build ceiling frame around fixture cutout to 2-5/8" to 2-3/4" width as shown in figure B. Refer to layout drawings for overall ceiling frame length.

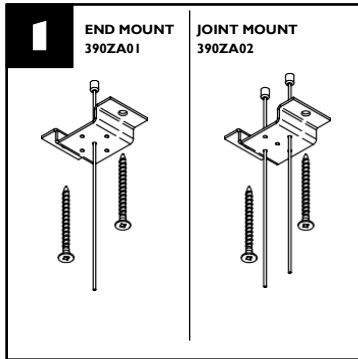
B Ceiling Dimensions: Continuous Runs



For continuous run fixtures, the cut-out in the drywall ceiling should be the same size as the overall fixture run length indicated on your layout drawings + 1/4".

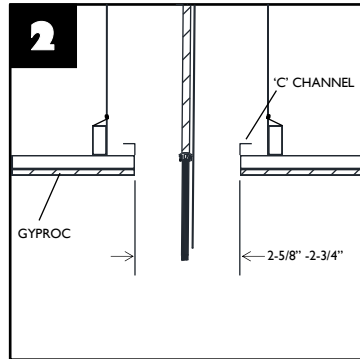
! ATTENTION: Install in accordance with national and local building and electrical codes.

Mount Installation



Install mounting brackets, suspension cables and power feed(s) at required locations. Refer to supplied layout drawings for mount locations. Mounting hardware (screws/fasteners) are supplied by others.

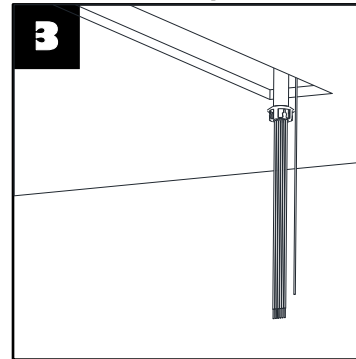
Install Mounts and Power Cables



Install a 'C' channel perimeter around the ceiling cutout.

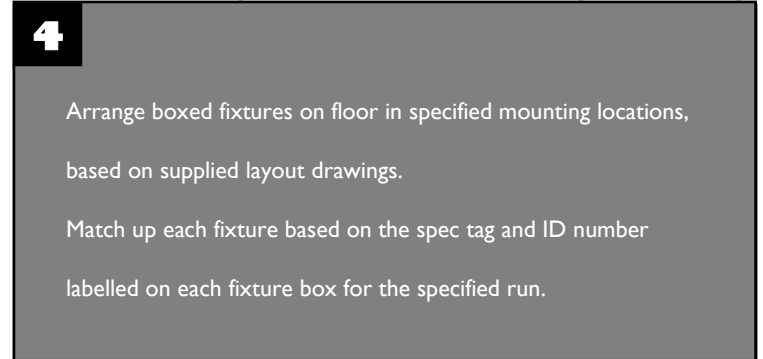
Important: See ceiling cutout details on page 2.

Install Drywall Ceiling



Install drywall ceiling and cut required opening as shown in **figure A** or **figure B** on page 2.

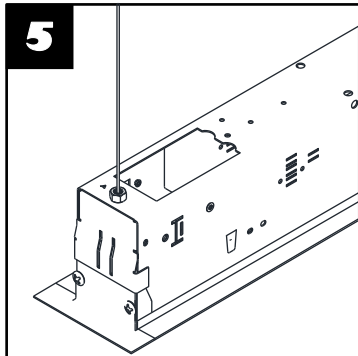
Prepare Fixture / Reference Layout Drawings



Arrange boxed fixtures on floor in specified mounting locations, based on supplied layout drawings.

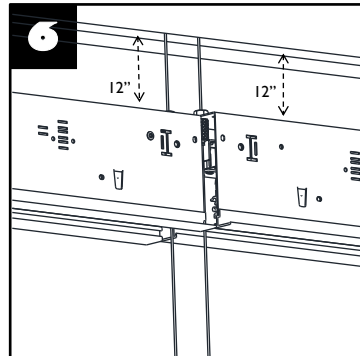
Match up each fixture based on the spec tag and ID number labelled on each fixture box for the specified run.

Insert Aircraft Cable



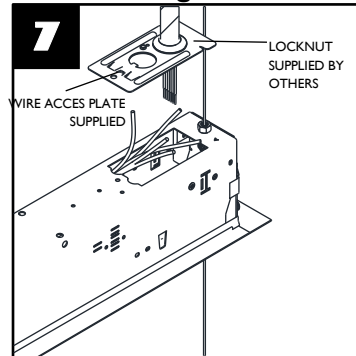
Suspend each module by inserting the aircraft cables through the grippers on top of the housing.

Raise Fixture



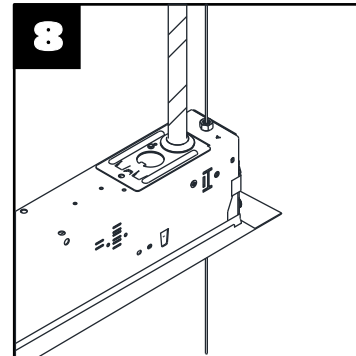
Gradually lift each module to approximately 12 inches below the ceiling.

Feed Through Power Wire



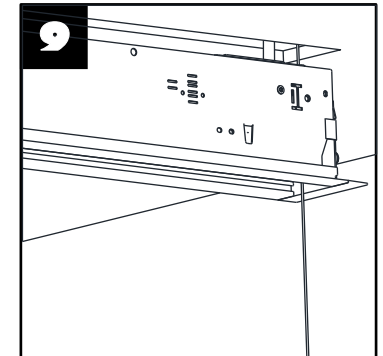
At the power location(s) feed power wires through supplied wire access plate. Complete all wiring connections.

Install Wire Cover



Install wire cover and lock.

Raise and Level Fixtures



Once the power connections are complete, pull the aircraft cable to raise all modules to just below the ceiling.

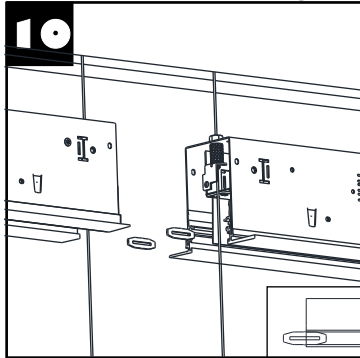
Important: Modules must be level relative to each other if joining of sections is required.

For standalone fixtures, go to step 15.

! ATTENTION: Install in accordance with national and local building and electrical codes.

Page 3

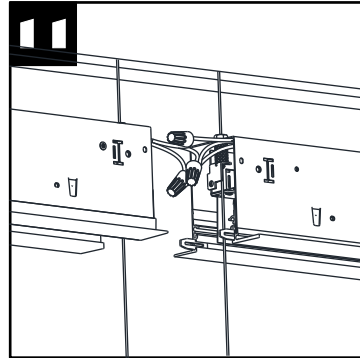
Install Joiner Aligners



At joint location(s), gently tap joiner aligners inside one module only. Two joiner aligners are required for each joint.

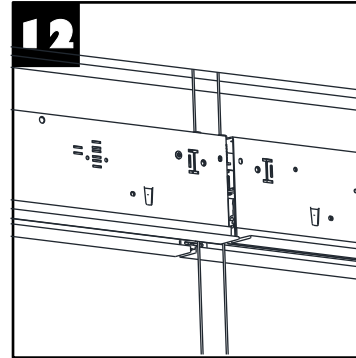
Important: Tap gently with a hammer until half of the aligner is inserted. Be sure to engage the dimple.

Complete Wiring Connections



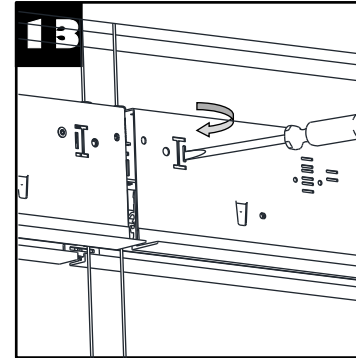
Complete module to module wiring connections and carefully tuck all wires inside the upper wiring cavity.

Join Individual Modules



Gently slide housing modules together, ensuring joiner aligners are engaged inside the trim in the adjacent module. **Important: Joiner aligners must be fully inserted to provide proper section alignment.**

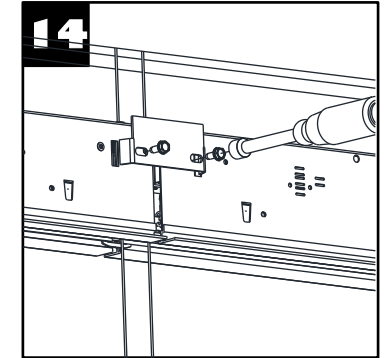
Open Slots for Joiner Bracket



Snap off the safety cover on joiner bracket slots with a flat head screwdriver.

This only needs to be done on ends that require joining.

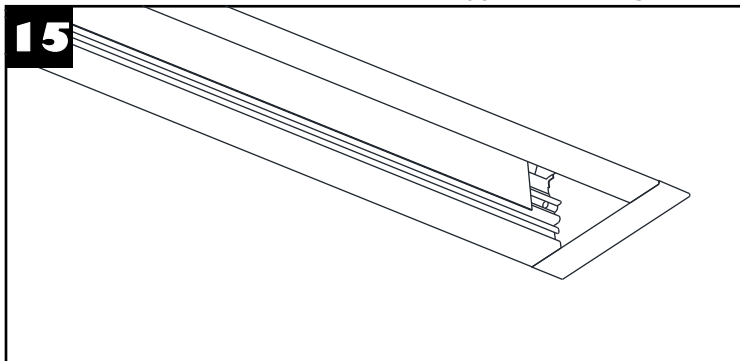
Install Joiner Brackets



Install supplied side attachment brackets with 3/8" nut driver.

Important: Hand tighten bracket screws while supporting the housing on the opposite side. Gradually alternate sides while tightening. Do not overtighten.

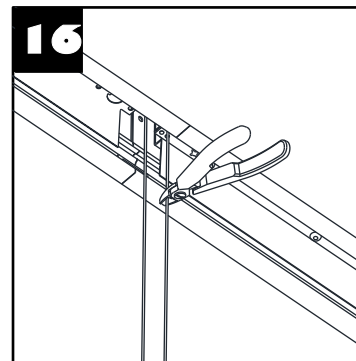
Raise Fixture(s) Into Ceiling cut-out



Slowly raise the modules into the ceiling cutout.

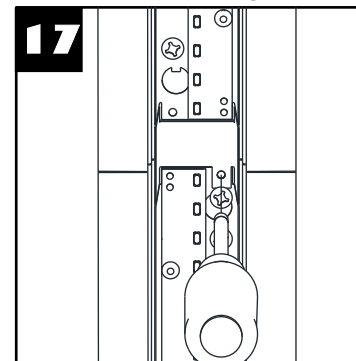
Important: For continuous row modules, start at one end and gradually raise each module up one inch at a time. Repeat process until housing is fully recessed and housing trim touches drywall ceiling. Do not stress the joint connection by tilting the module, as damage can occur.

Trim Excess Cable



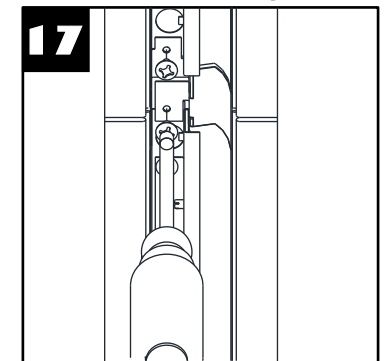
Trim suspension cable approximately 8 inches below the ceiling level. Tuck all excess cable inside the upper wiring cavity.

LED Pan Joiner - Symmetric



Mount the LED pan connector with the supplied screw in the joiner kit.

LED Pan Joiner - Asymmetric



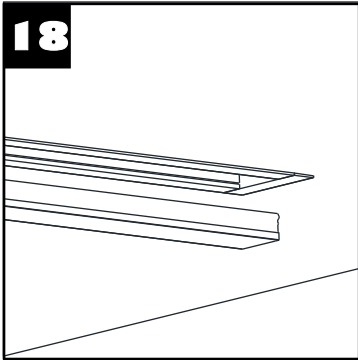
Mount the LED pan connector with the supplied screw in the joiner kit.

There are two pieces for the asymmetric fixtures.

! ATTENTION: Install in accordance with national and local building and electrical codes.

Install Lens

18



Snap in lens to insert into fixture.

Note: Please refer to layout drawing and match up each lens based on the ID number.

Lens Removal for Maintenance

To remove snap-in lens for maintenance purposes, insert a flat, smooth edged object between lens and housing. Twist to release pressure and remove lens.

