System Overview

These instructions review how to install trimless drywall versions of TruGroove recessed 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 fixtures in drywall ceilings.

Module 1

Module 2

Exterior lens kits - variable lengths (shipped separately)

Factory pre-installed mud flange

Tools Required: Phillips screwdriver, 5/16” nut driver.

Joint Kit(s)*: Continuous Row Fixtures

- Joiner Aligners (x2)
- Joining Brackets (x2)
- Hex Bolts (x4)

*NOTE:
One kit required for each joint.

LED Joint Cover (s)
- Cover Plate (x1)
- Screws (x2)

*NOTE:
One kit required for each joint.

Joint Kit(s)*: Continuous Row Fixtures

- Joiner Aligners (x2)
- Joining Brackets (x2)
- Hex Bolts (x4)

*NOTE:
One kit required for each joint.

Tools Required: Phillips screwdriver, 5/16” nut driver.
Installation Instructions
ID-39_TruGroove_Drywall_Trimless

Drywall Ceiling
Standalone or continuous run configurations

Framing & Drywall Notes

⚠️ IMPORTANT

- DC: 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.

NOTE: TruGroove modules are designed for installation after ceiling construction.

Ceiling Cut-out Details

Avoid

Prepare Ceiling: Standalone Units

1. Determine fixture location and fixture type. Refer to figure A for fixture length and mount locations. Install A3 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 3 7/8 to 4 1/8 width as shown in figure A and required cut-out length.

Ceiling Dimensions: Standalone Units

A

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 A3 mount brackets and suspension cables supplied as shown on page 3.
2. Determine power feed location(s) - refer to layout drawings. Install power feeds as required and drop below installed ceiling height.
3. Build ceiling frame around fixture cutout to 3 7/8 to 4 1/8 width as shown in figure B. Refer to layout drawings for overall ceiling frame length.

Ceiling Dimensions: Continuous Runs

B

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Installation Instructions
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Drywall Ceiling
Standalone or continuous run configurations

1. A3 Mount Installation
   - Install mounting brackets, suspension cables and power feed(s) at required locations. Refer to A3 mounting instructions enclosed.

2. Install Mounts and Power Cables
   - Install a C channel perimeter around the ceiling cutout.
   - Important: See ceiling cutout details on page 2.

3. Install Drywall Ceiling
   - Install drywall ceiling and cut required opening as shown in figure A or figure B on page 2.

4. Prepare Fixtures / 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.

5a. Insert Aircraft Cable
   - Suspend each module by inserting the aircraft cables through the grippers on top of the housing.

5b. Raise Fixture
   - Gradually lift each module to approximately 12 inches below the ceiling.

6. Remove Cover and Feed through Power Wire
   - At the power location(s), remove factory installed wire cover. Feed power wires through. Complete all wiring connections.

7. Re-install Wire Cover
   - Re-install wire cover and slide to lock.

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

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**8 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.

**9 Install Joiner Aligners (Continuous Row Fixtures)**

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

Important: To insert aligners, tap gently with a hammer until half is inserted into the joiner channel. Be sure to engage the dimple.

**10a Complete Wiring Connections (Continuous Row Fixtures)**

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

**10b Join Individual Modules (Continuous Row Fixtures)**

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.

For standalone fixtures, go to step 12

**11 Install Joiner Brackets (Continuous Row Fixtures)**

Install joiner brackets on each side of the housing using supplied hardware.

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

**12 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.

**13 Secure Fixture**

Secure the fixture to the gyproc and C channel with #6 drywall screws (supplied by others).

**14 Trim Excess Cable**

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

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**Installation Instructions**

**ID-39_TruGroove_Drywall_Trimless**

**Drywall Ceiling**

Standalone or continuous run configurations

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**15** Fluorescent Versions ONLY: Secure Lampholder Brackets

At joint locations, tuck wires inside housing and secure lampholder brackets using supplied hardware. Ensure brackets sit flush with bottom reflectors for proper lamp fit.

**16** Remove Spacers

At joint locations, secure joint covers using supplied hardware. Ensure cover plates sit flush with bottom reflectors for proper LED board fit.

Note: When a second screw attachment is not available, bend end of cover plate over at slot location, so it sits flush against the back.

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**17a** Insert Mud Guard

Before beginning ceiling mudding, insert the supplied Mud Guards into each fixture to protect fixture opening from mud and paint.

Note: Mud Guards are supplied in a separate box. Please insert mud guards throughout the entire row.

**17b** Apply Mud Over Fixture Flange

Mud over the fixture flange. When finished, use a utility knife to cut out the mud guard.

Note: Use of a taping compound is highly recommended.

**17c** Clean Fixture Trim

Eliminate any paint or drywall compound on inside fixture trim to ensure lens will properly insert.

**18** Install Lamps

Install lamps if required.

LEDs are factory pre-installed.

Note: Lamps are staggered in some configurations.

**19** Install Lens

Flush Lens: Snap in lens to insert into fixture.

Regressed Lens: Angle lens to insert into fixture. Lay lens on aluminum extrusion flange.

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

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**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.

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