



# **DLED-9000 LED Miniature Series**

## **INSTALLATION INSTRUCTIONS**

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### **FOR CEILING and WALL MOUNT FIXTURES**

**dreamscape**  
LIGHTING MFG., INC.

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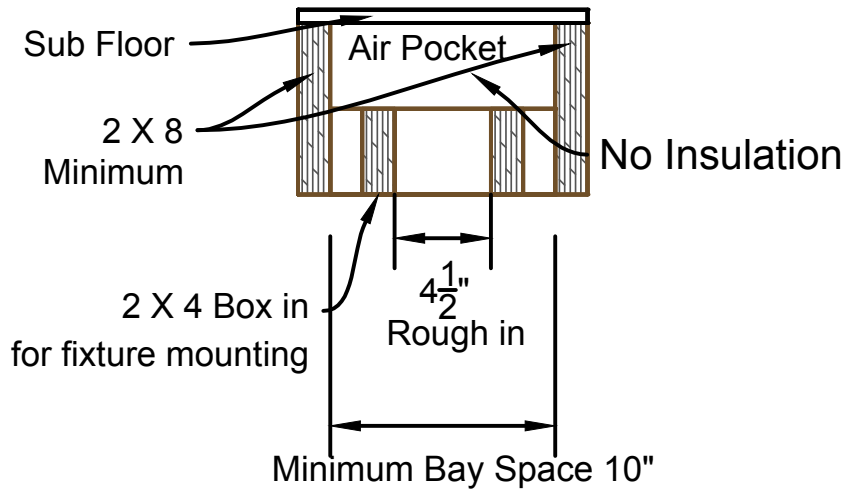
# TEXT INSTRUCTIONS

1. Install rough framing which is both vertically and horizontally level where DLED-9000 Miniature is to be located. Create opening in framing one inch longer and one inch wider than housing. All framing dimensions should be accurate to 1/16th tolerance. The use of only very straight framing materials is recommended in order to make installation easier.
2. Attach mounting brackets of housing to framing.  
**IMPORTANT:** Leave the lens spacer in the housing while attaching the mounting brackets of the housing to the framing.. Do not squeeze width of housing when handling fixture, because it may change the inside housing dimension and prevent the installation of the lens. Front edge of housing must protrude past the finish drywall.
3. After mounting brackets have been secured to the framing, REMOVE LENS SPACER and store safely. Adjust housing so that it extends past finish drywall by 1/8th inch.
4. Tighten all internal screws on brackets to secure fixture to framing. Be sure housing is both vertically and horizontally level. RECHECK housing to verify that edge is still 1/8th inch past finish drywall. **IMPORTANT:** Check that lens still fits in housing and that housing shape has not been distorted in any way during installation. . Check that housing is both vertically and horizontally level. To install lens, starting from one end, feed the edge of the U-shaped lens into the fixture by squeezing lightly on the end rails as you slowly slip it into the housing. The end of the lens should be touching the end cap at this point and remain touching it until the complete lens is installed. If you leave a gap at the starting point, the lens will not fit. It should be a snug fit. Keep pushing the lens in until it fills the opening completely and becomes flush with the housing edge. To remove the lens, start pulling on the lens with the supplied suction cup. Pull straight out on the lens, and it will come away from the housing. After the lens is exposed, gradually pull it out of the housing. All lenses are marked and custom fit to each housing. Do not mix lenses. Store lens safely.
5. Bring power through both knock-outs into raceway channel provided when you have multiple ballasts, or bring it through one end when you have a single ballast. Per NEC requirements, supply appropriate voltage and grounding for the installed driver. Install lamp/lamps and test operation. **IMPORTANT:** After electrical wiring has been completed, re-install aluminum lens spacer.
6. Create a cutout in the finish drywall that exceeds the dimension of the housing by 1/4th inch. NOTE: Accurate drywall cutting is essential to facilitate an easy installation.
7. Inspect drywall area around housing for any exposed drywall screws. Be certain all screws are completely flush with the drywall. Surround the fixture with 2" wide self-adhesive fiberglass mesh tape for drywall. Recheck that housing is 1/8th" past face of the drywall.
8. Use the edge of the fixture as the drywall bead edge for the taping knife. Apply two layers of 1/16th" thick West Pac Fast Set (part #FS 20) to the surface surrounding the housing, tapering away from the fixture until a level plain is created with the wall board.
9. Be certain to remove any Fast Set that might have been deposited on the inside edges of the housing. This type of foreign material could interfere with lens connecting with the housing.
10. Sand Fast Set area until it is Level 4 smooth. Let dry for one to two days with metal spacer installed in the housing.
- 11-A. Remove metal spacer and clean inside of fixture and lamps. Install finish lens. Inspect for cracks, exposed edge of lens showing, or surface blemishes. Apply additional Fast Set and sand if needed.
- 11-B. Install lamps. Turn on fixture with lens installed for 24 hours for switched fixtures and 100 hours for dimmed fixtures to season lamps. After this has been completed, inspect the Fast Set surface for problems.
12. If additional mudding work is necessary to attain a Level 5 finish, remove lens and fill in any cracks by spraying on West Pac Prep Coat Surface Drywall Primer. Let dry, and then sand to Level 5 finish. Apply paint primer to edge of housing and all Fast Set or Smooth Coat areas. Final sand if necessary. Install metal spacer.
13. Paint ceiling finish color.
14. Install finish lens.
15. Fixture may be energized for use.

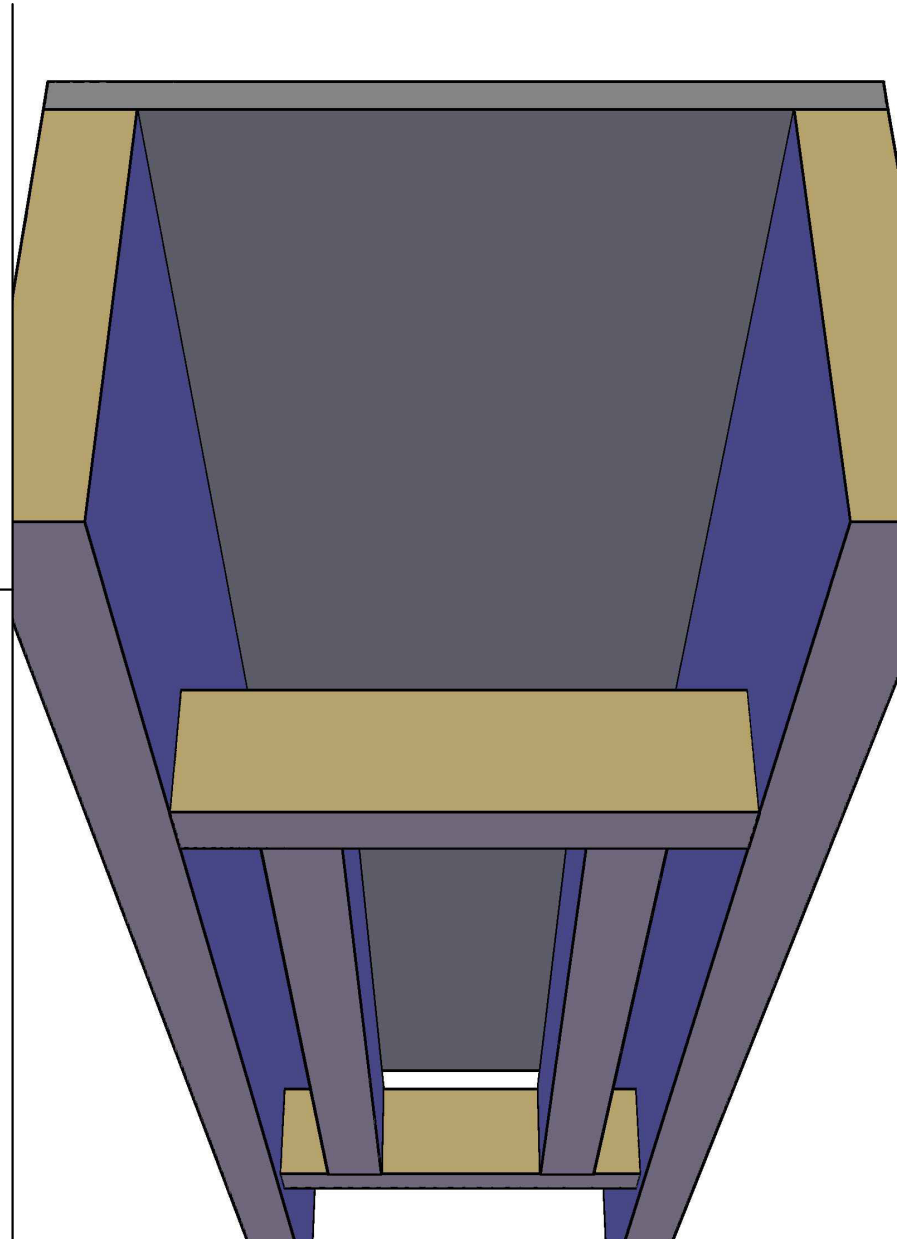
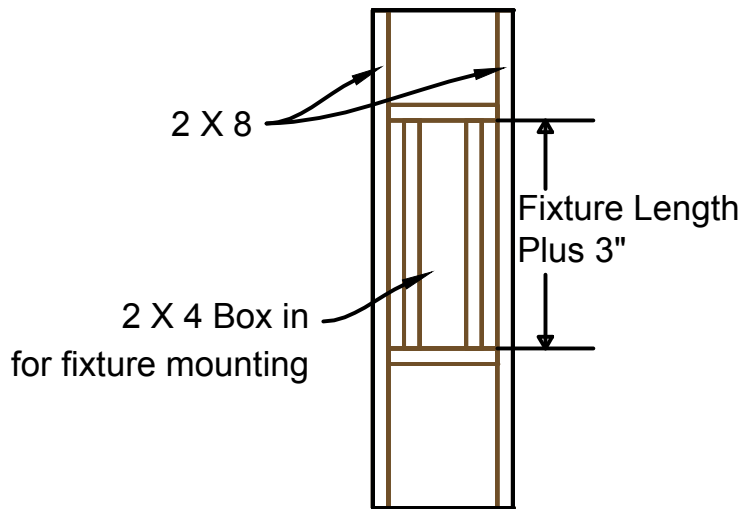
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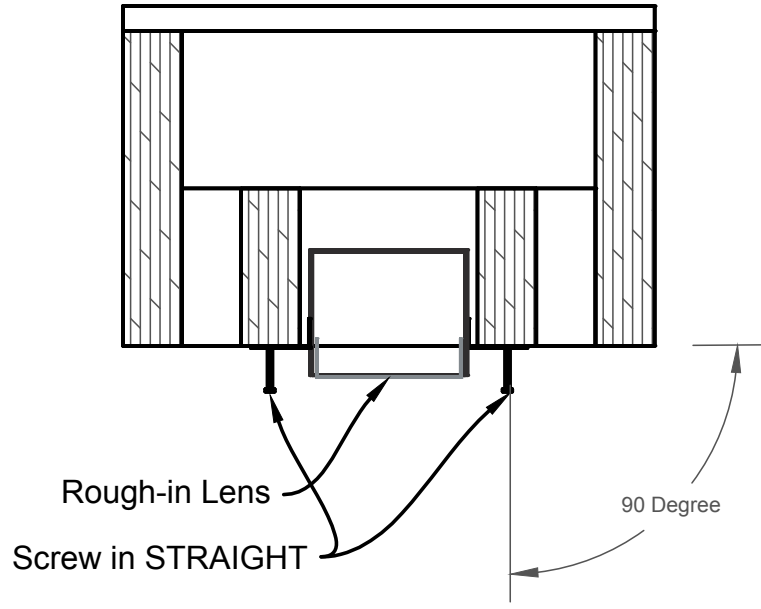
# Application: Ceiling Mount Between Floors



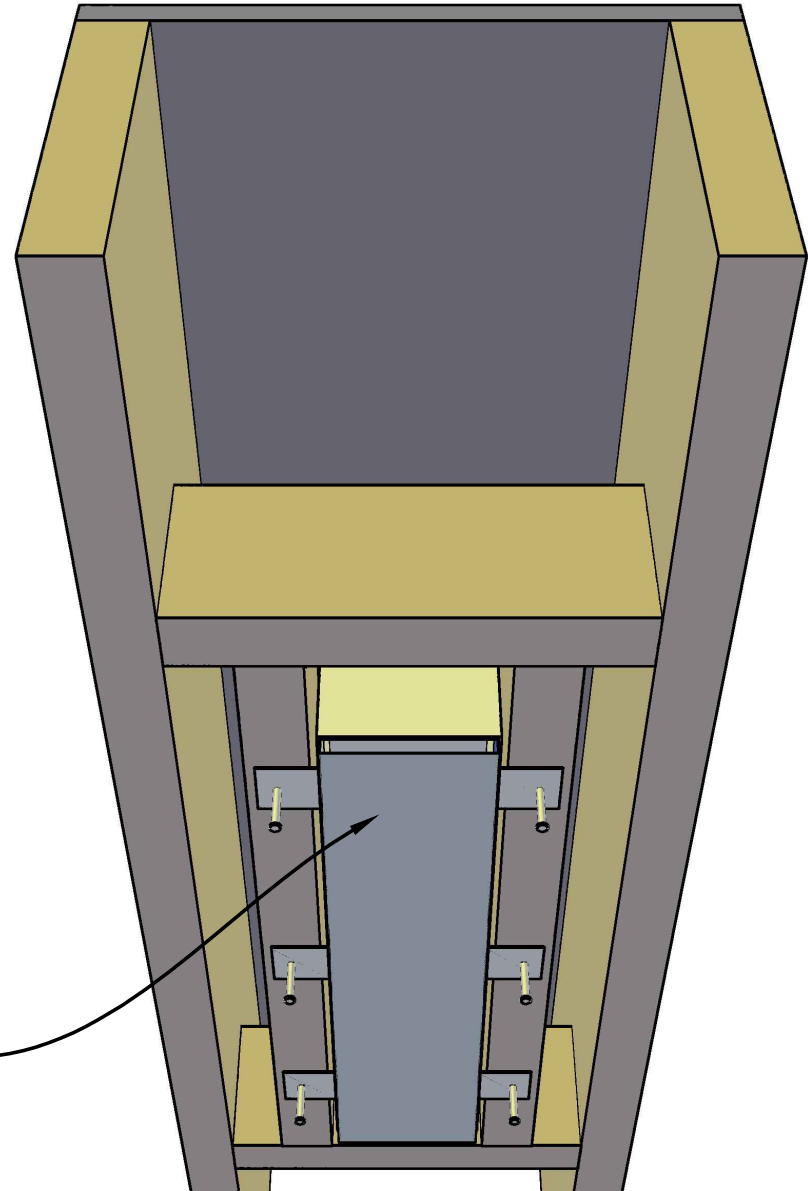
Box in Fixture with 2X4 Framing



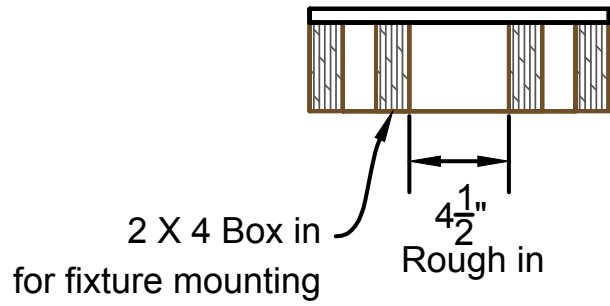
# Application: Ceiling Mount Between Floors



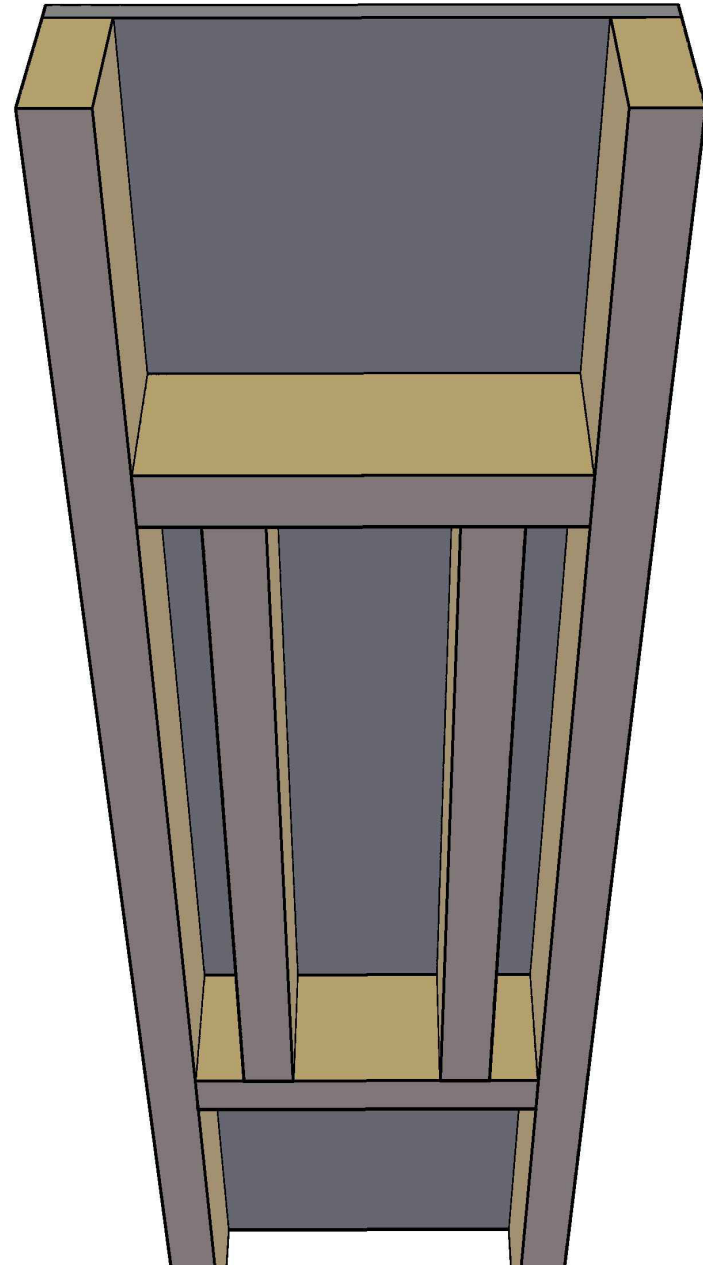
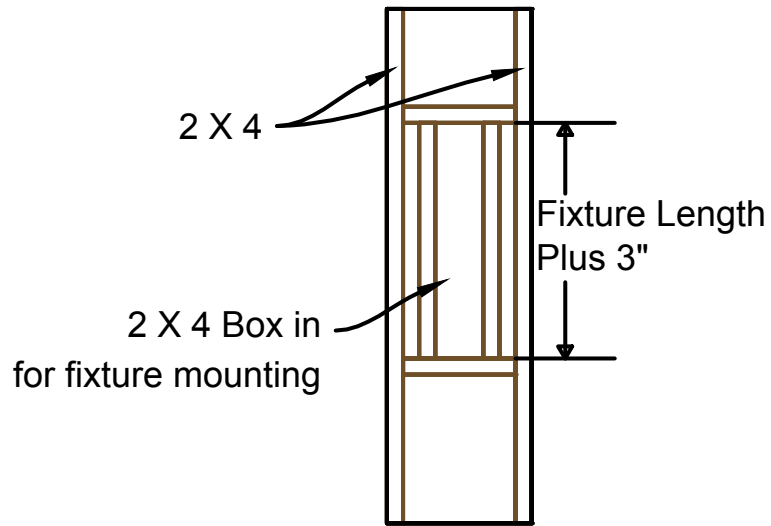
Screw Housing to Framing while  
Rough-in Lens is installed into fixture.



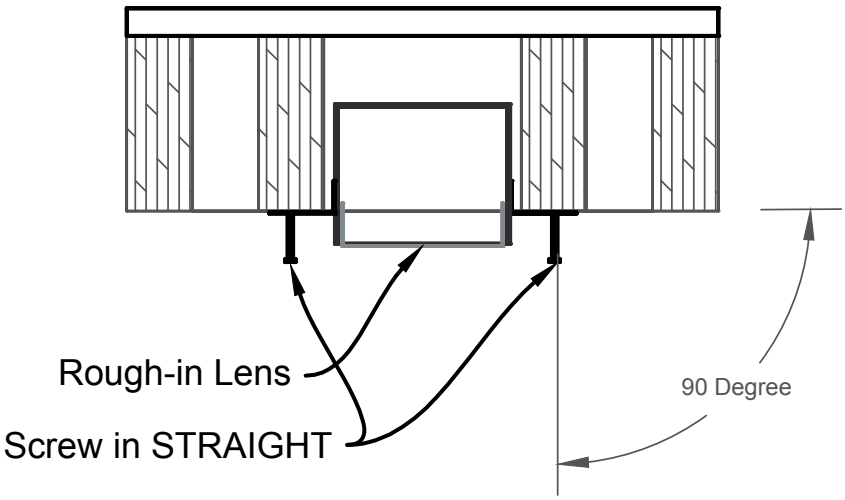
# Application: Wall Mount



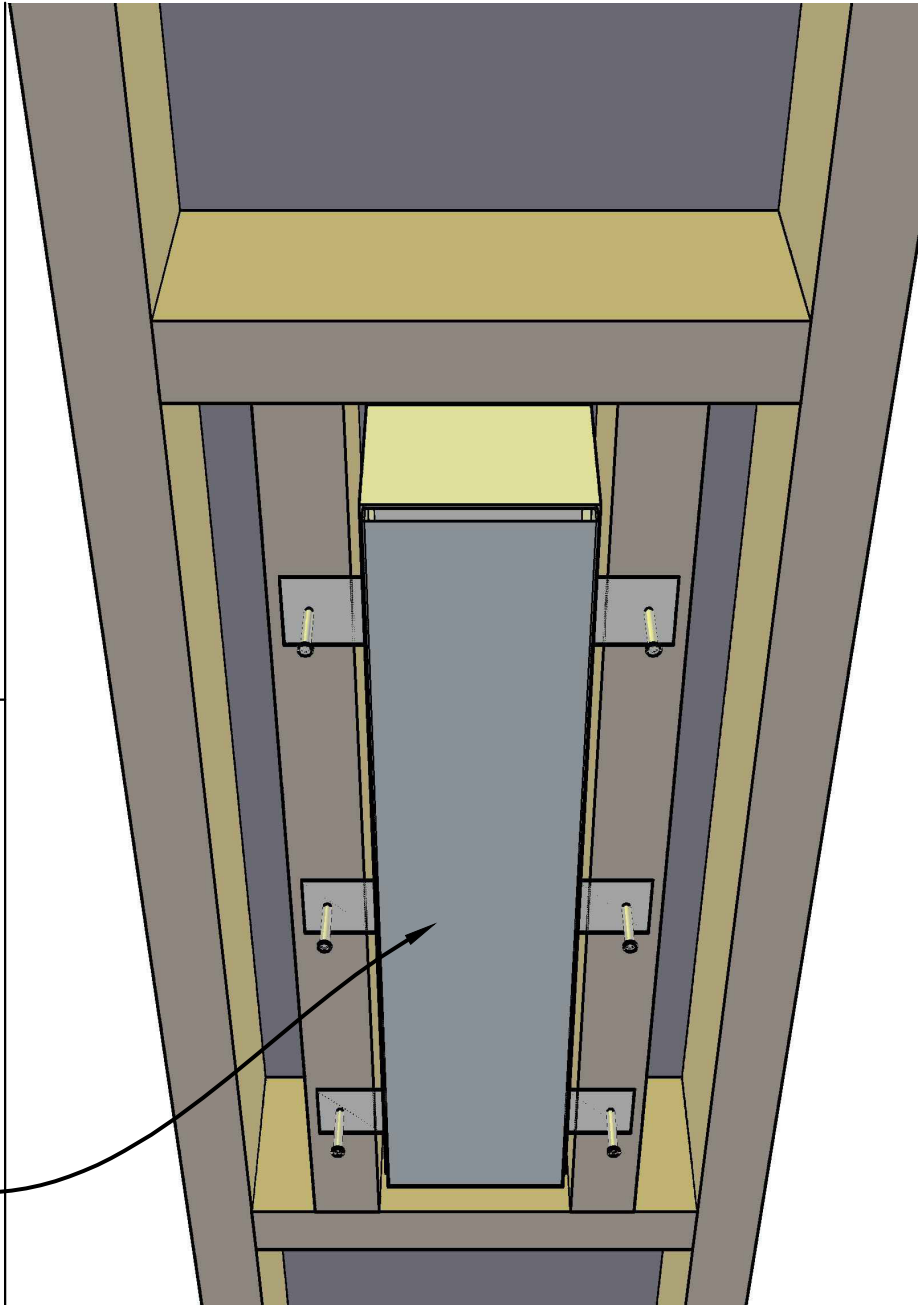
## Box in Fixture with 2X4 Framing



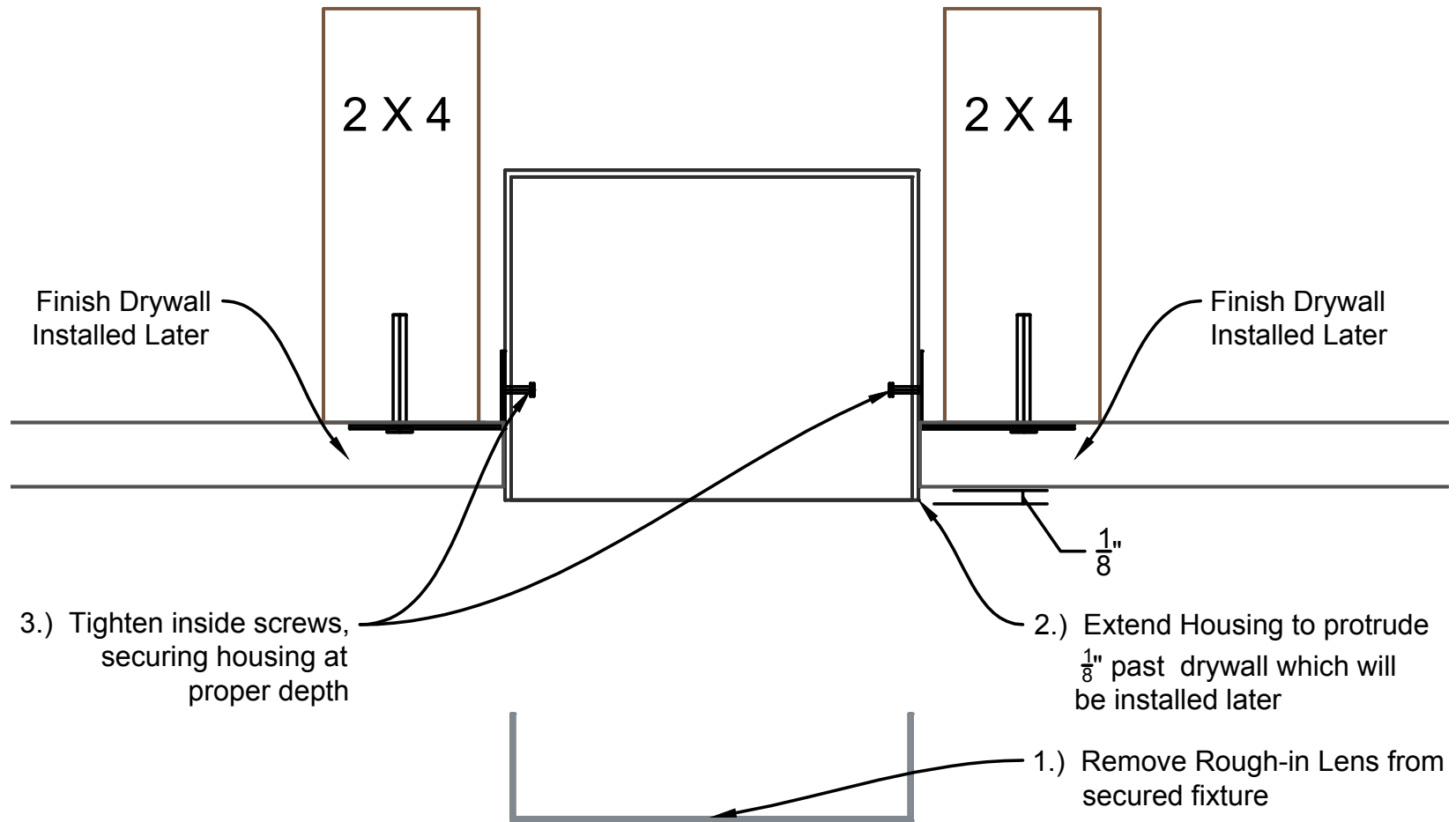
Application: Wall Mount



Screw Housing to Framing while  
Rough-in Lens is installed into fixture.

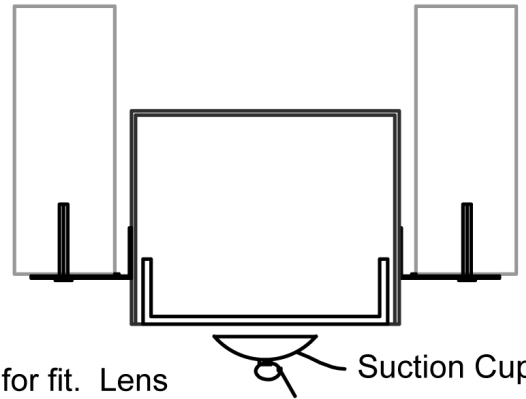


# Adjust Housing



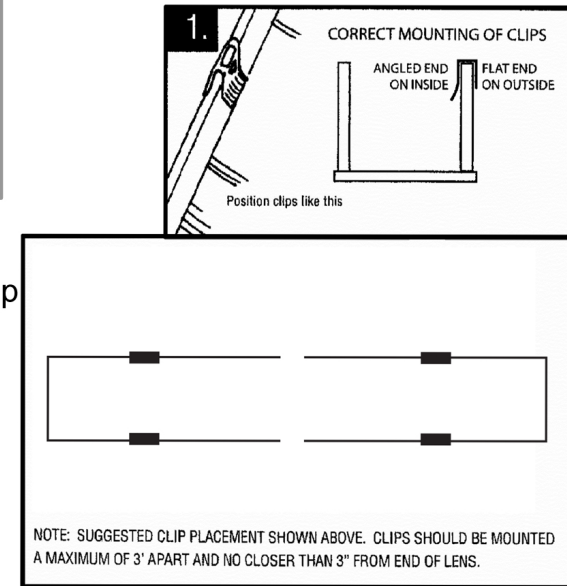


# Lens Fit Check- 1



- 1.) Install Lens into housing to check for fit. Lens should fit snug but not need to be forced. If Lens is loose or tight, check that hanger bars are screwed in correctly. See Page 3.  
**IMPORTANT:** Always use suction cup to remove lens

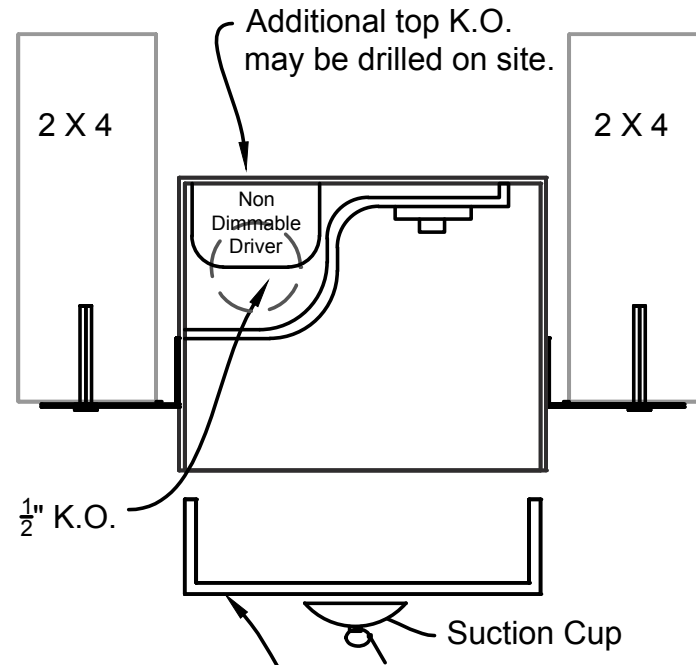
- 2.) If Lens still loose after adjustment install Snug Fit Clips on to lens and check fit.



Check that housing is both vertically and horizontally level. To install lens, starting from one end, feed the edge of the U-shaped Lens into the fixture by squeezing lightly on the end rails as you slowly slip it into the housing. The end of the lens should be touching the end cap at this point and remain touching until complete lens is installed. If you leave a gap, the lens will not fit. It should be a snug fit. Keep pushing the lens in until it fills the opening completely and becomes flush with the housing.

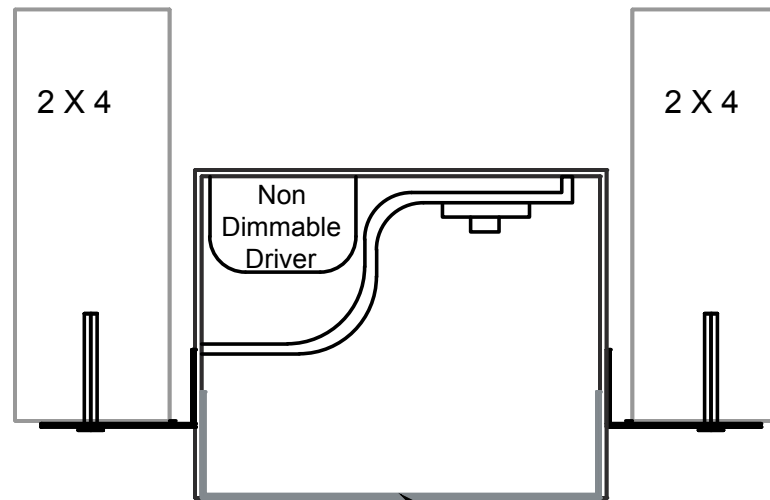
To remove lens, start pulling on lens with the supplied suction cup. Pull straight out on the lens and it will come away from the housing. After the lens is exposed, gradually pull it out of the housing. Do not mix lenses. Store lens safely.

# Install Electrical Wires



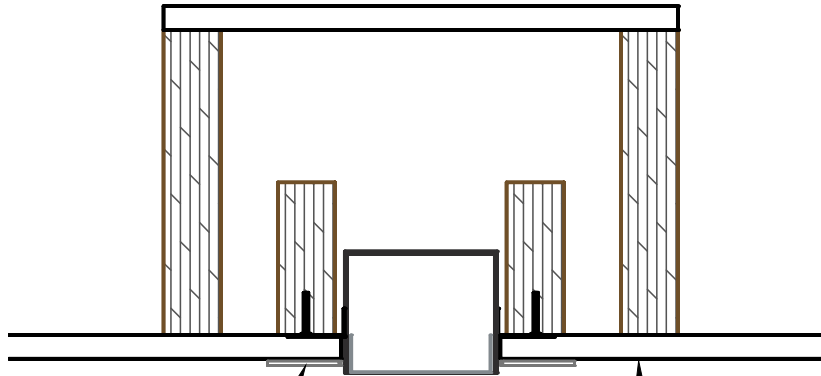
Using suction cup remove lens and Ballast Cover. Bring feed wires in through K.O. per NEC requirements. Supply correct voltage per ballast specification.

# Test Operation and Install Metal Spacer



- 1.) Replace Ballast Cover and perform test operation.
- 2.) Turn power off after testing. Install Rough-in Lens to prepare for drywall installation.

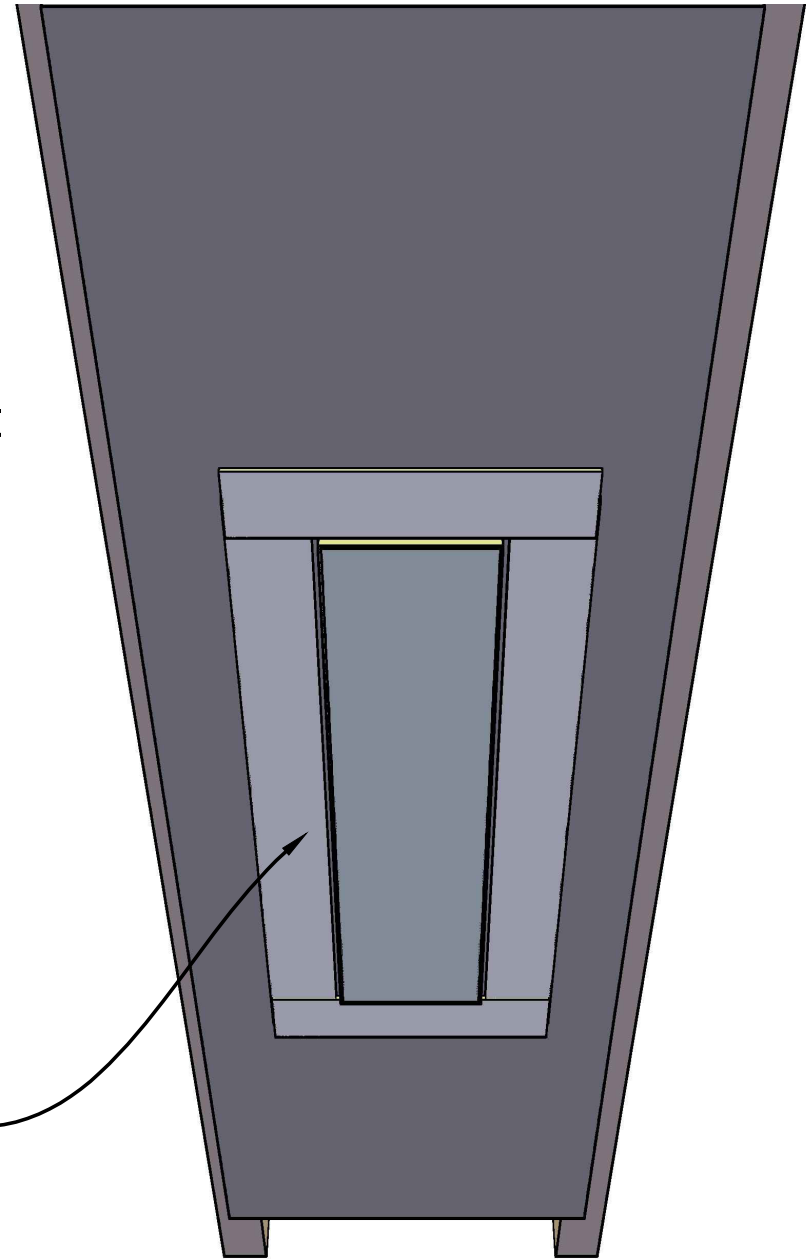
## Install Westpac Fiberglass Tape



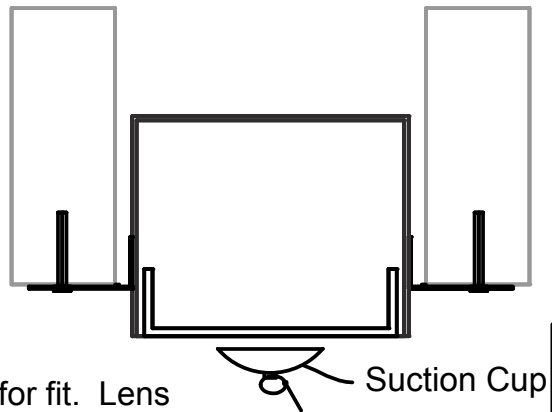
1.) Install Drywall, butt up to edge of housing. Check that housing extends past drywall  $\frac{1}{8}$ ". If not ADJUST and secure housing.

Tape does not overlap fixture edge; it should butt up to fixture.

Install 2" Westpac Fiberglass Tape with Rough-in Lens installed into fixture.



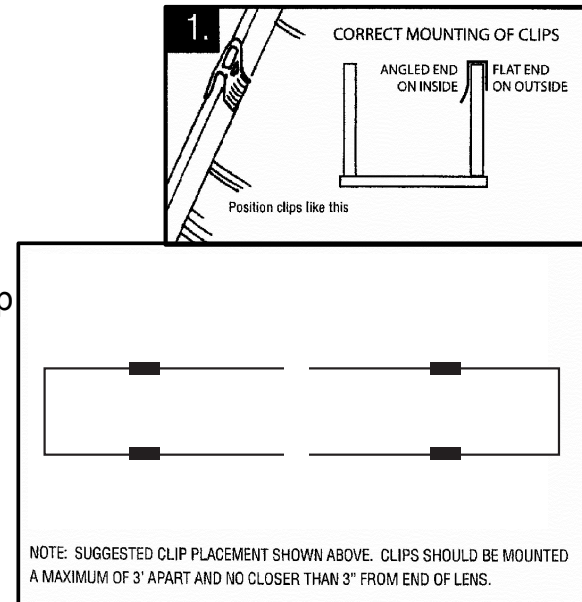
# Lens Fit Check- 2



- 1.) Install Lens into housing to check for fit. Lens should fit snug but not need to be forced. If Lens is loose or tight, check that hanger bars are screwed in correctly. See Page 3.

**IMPORTANT:** Always use suction cup to remove lens

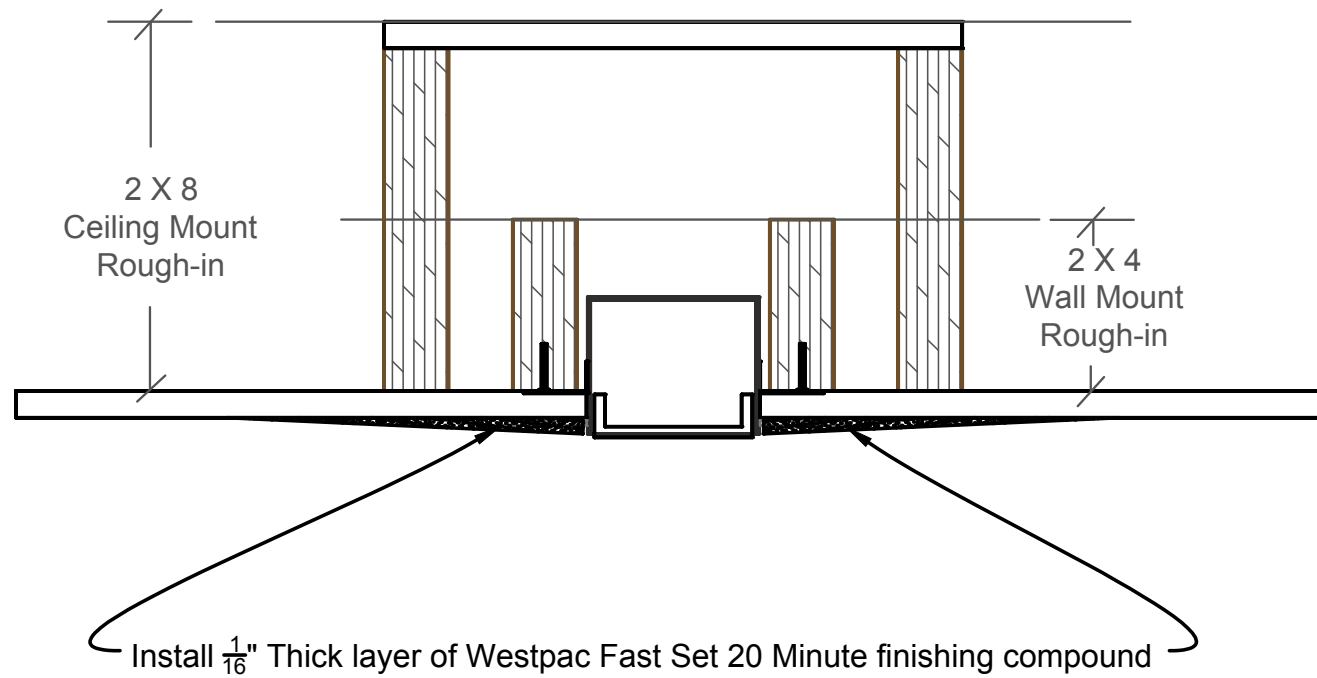
- 2.) If Lens still loose after adjustment install Snug Fit Clips on to lens and check fit.



Check that housing is both vertically and horizontally level. To install lens, starting from one end, feed the edge of the U-shaped Lens into the fixture by squeezing lightly on the end rails as you slowly slip it into the housing. The end of the lens should be touching the end cap at this point and remain touching until complete lens is installed. If you leave a gap, the lens will not fit. It should be a snug fit. Keep pushing the lens in until it fills the opening completely and becomes flush with the housing.

To remove lens, start pulling on lens with the supplied suction cup. Pull straight out on the lens and it will come away from the housing. After the lens is exposed, gradually pull it out of the housing. Do not mix lenses. Store lens safely.

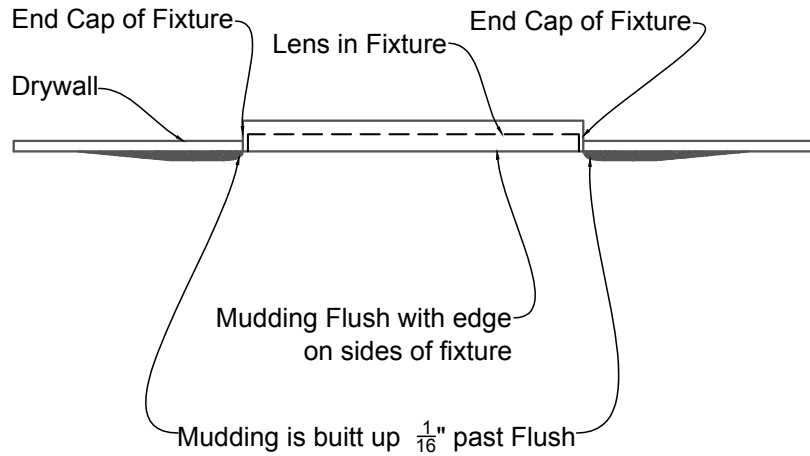
## $\frac{1}{16}$ " Rough Coat Applied 1st Layer



Be sure Rough-in Lens is installed. Apply first coat of Westpac Fast Set 20 Minute finishing compound to a depth of 1/16 inch thickness. This first coat will cover the drywall tape, fill in all cracks in the drywall that surround the housing and come in contact with the side of the exposed edge of the housing.

Let this first coat dry for at least one day before beginning the next step.

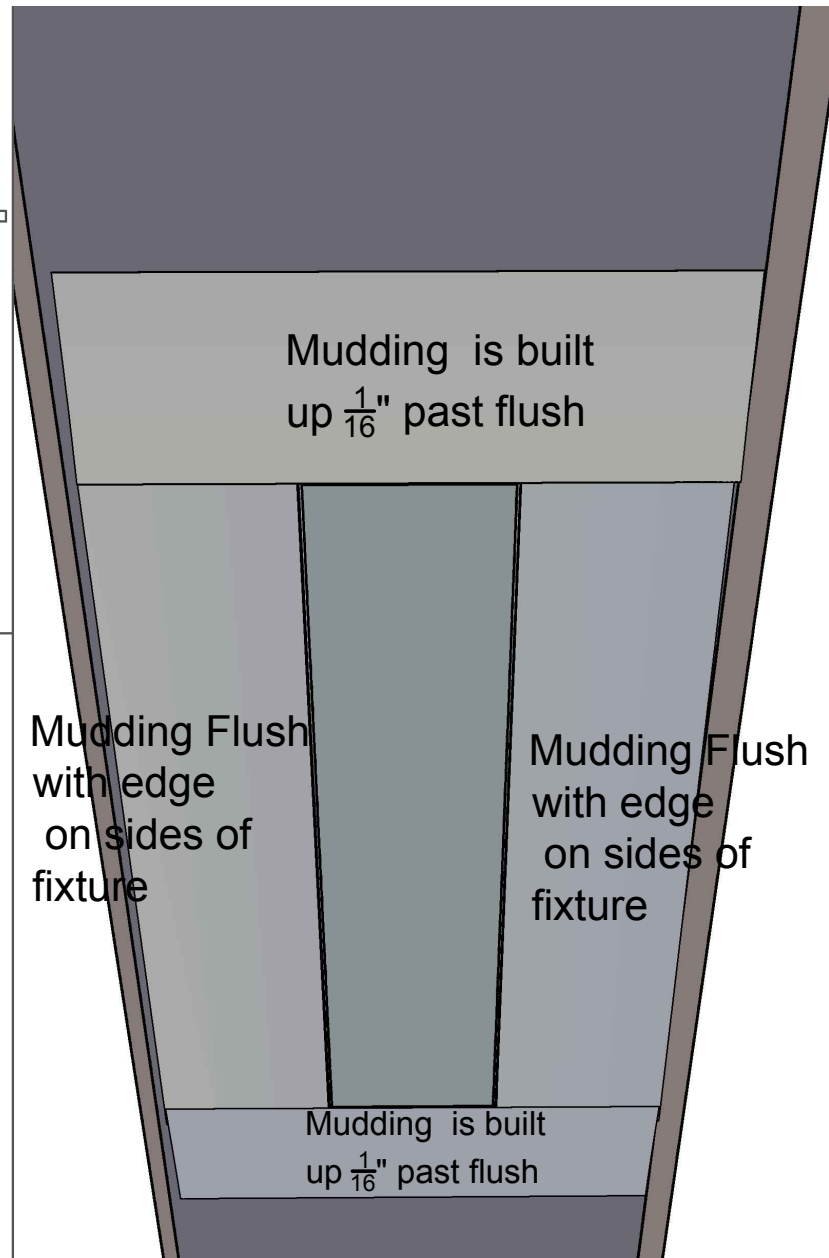
### Section View of Side for mudding detail



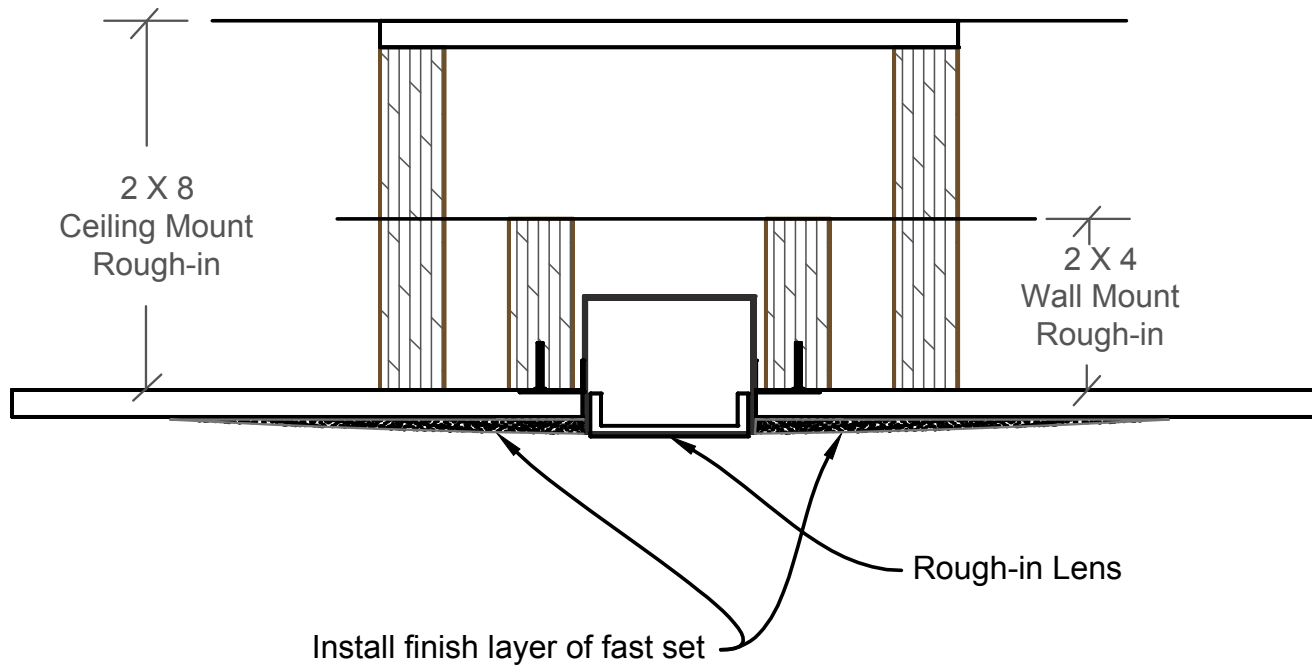
### Finish Coat 2nd Layer Instructions

Build up Fast Set compound to be flush with sides of housing edge, and  $\frac{1}{16}$ " greater than housing on ends.

See Diagram ----->



## Finish Coat Applied 2nd Layer



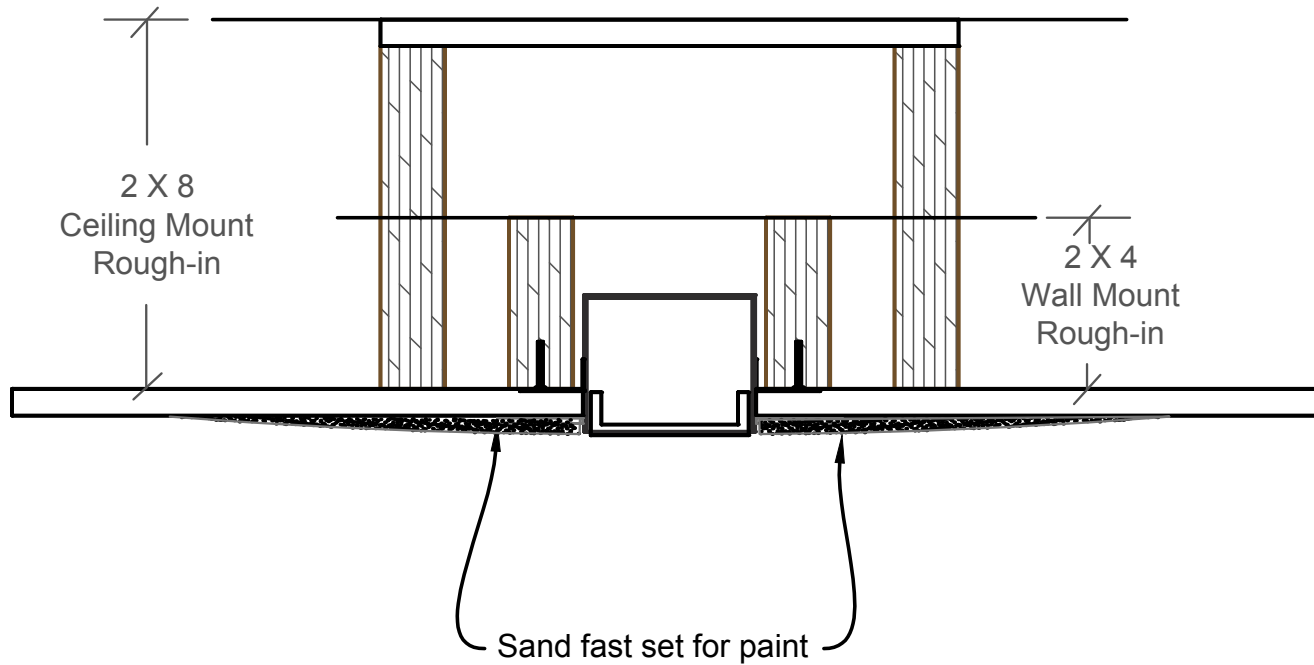
Be sure Rough-in Lens is installed. Now apply, and taper 2nd layer of Westpac Fast Set, using the edge of the housing to rest the mudding trowel on.

Taper 9 to 12 inches away from that edge, blending the fast set into the ceiling plane .

**Important:** Be sure no mudding residue collects on the inside edge of the housing. Inspect and keep Let this step dry for at least two days before starting finish preparation. Be sure Rough-in Le installed while drying.



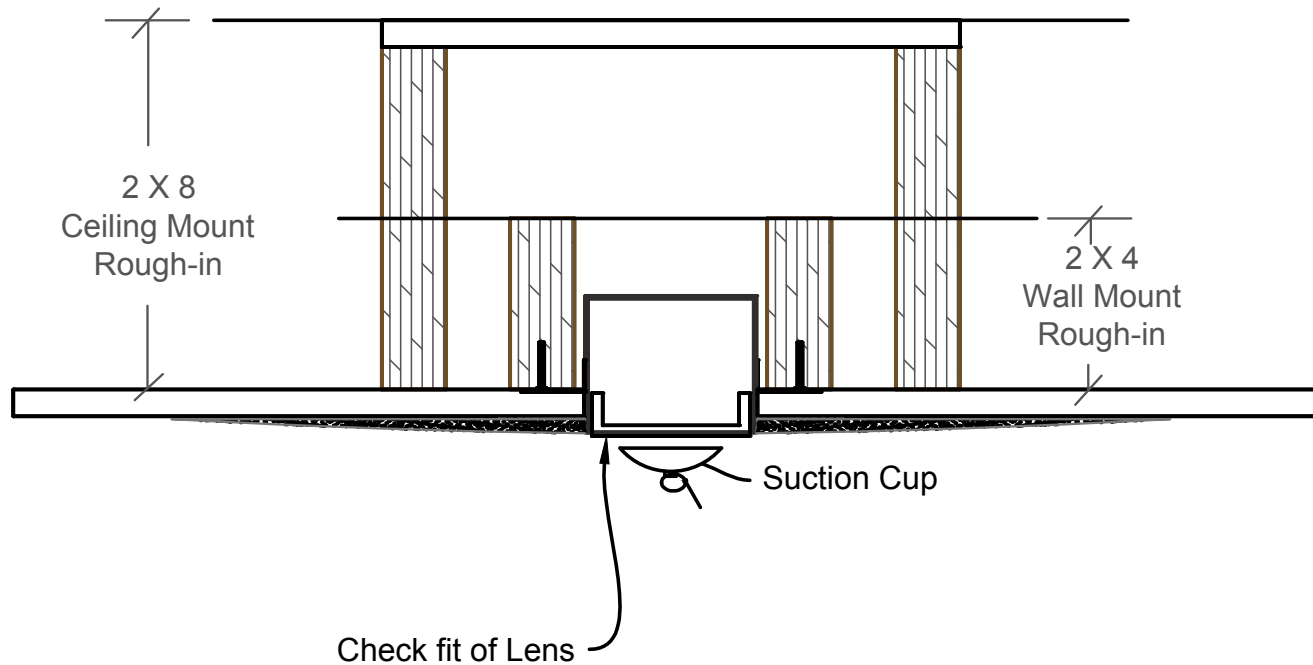
## Start sanding



Start Sanding the fast set area after two coats have been applied and allowed to dry. Sand the fast set until you can see the edge of the housing on each side.

**IMPORTANT:** Make sure you don't sand the ends of housing like the sides. The fast set compound should exceed the housing on the ends by 1/16" to cover ends, as seen on page 12.

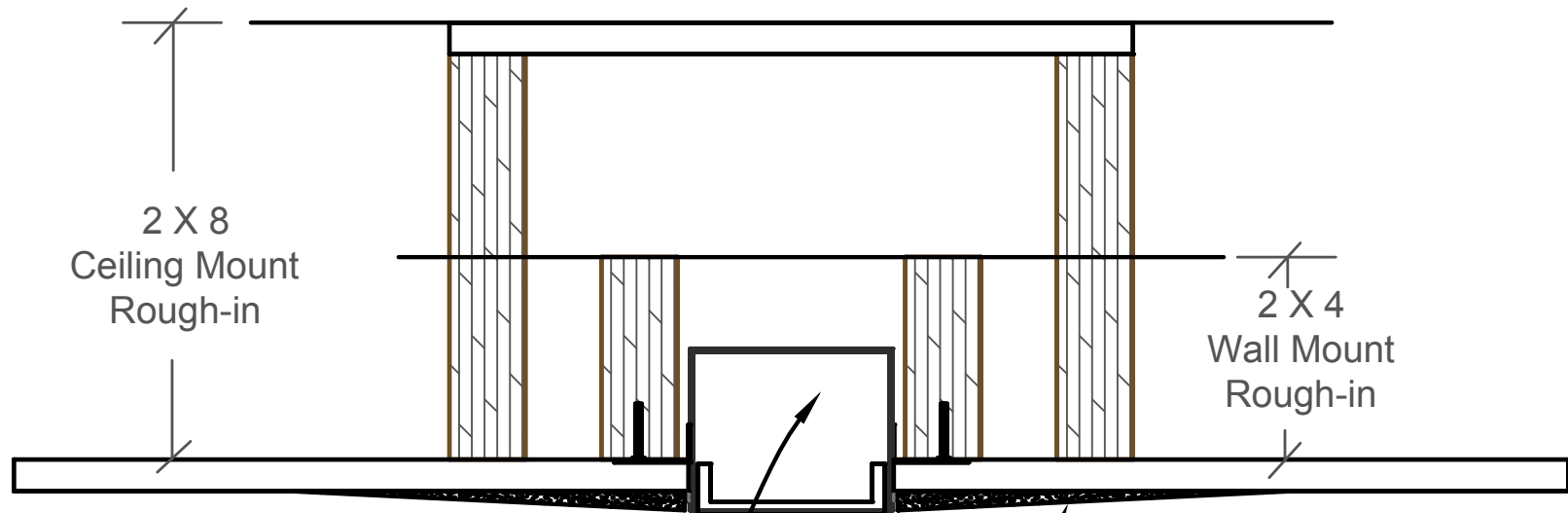
Check fit on lens and add 3rd layer if nessecary



Install lens and check how it fits into the housing and for coverage of smooth set . Lens edge and housing side should not show, but be flush with the tapered smooth set . If edge of lens or side of housing is visible, more smooth set material needs to be applied. Finish to Level 4 finishing standard, before next step.

Remove lens using suction cup and re-install Rough-in Lens before adding more smooth set.

## Fast Set heat test

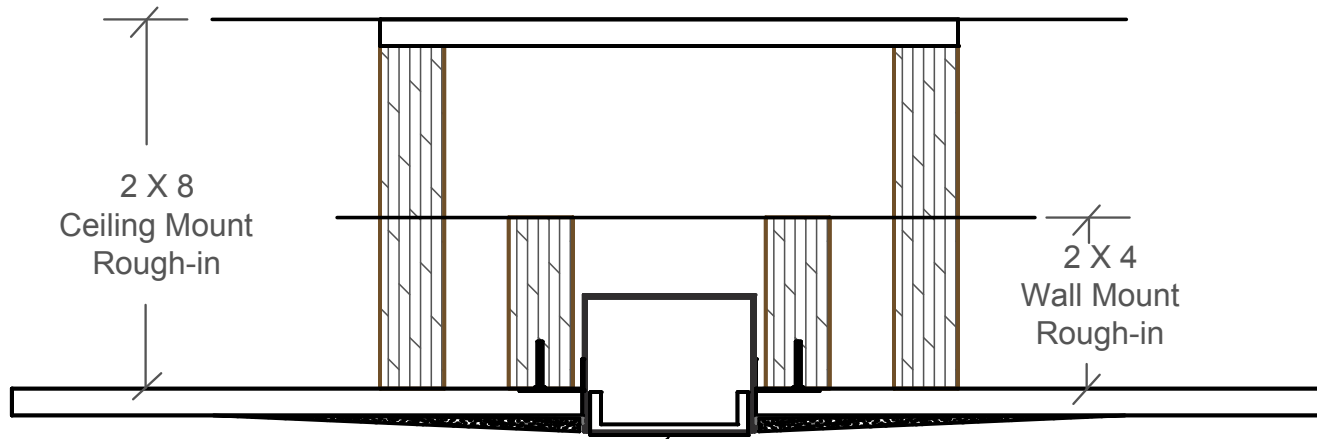


1.) Clean inside fixture and lamps. Next clear lens channel of any debris then install lens.

Inspect Mudding area

2.) Turn on fixture for 24 hours to dry out all finishing compound.

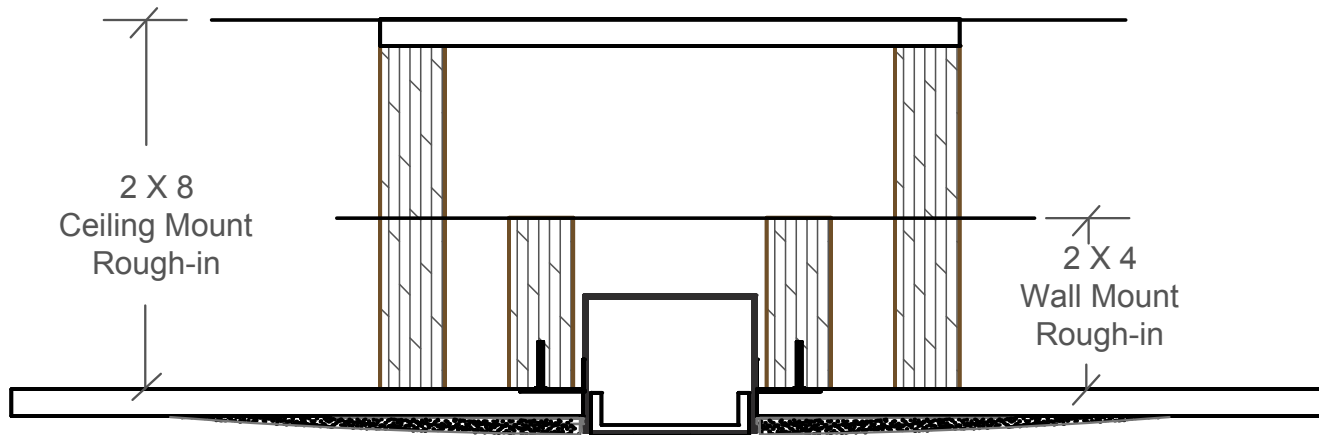
Verify satisfactory result. Apply 4th Layer (Hamilton Prep Coat) if needed



Remove Blue Masking Tape  
after finish painting completed.

- 1.) After running heat test examine mudded area for cracks or blemishes. If any cracking is found remove lens with suction cup. Install Rough-in Lens. There will be open spaces at either end of the housing. Use blue masking tape to cover these opening, so that it will not be possible for spray to get into housing.
- 2.) Spray on Hamilton Materials Prep Coat finishing primer to fill remaining blemishes and sand to finish. You should now be at a finish level 5 for painting.

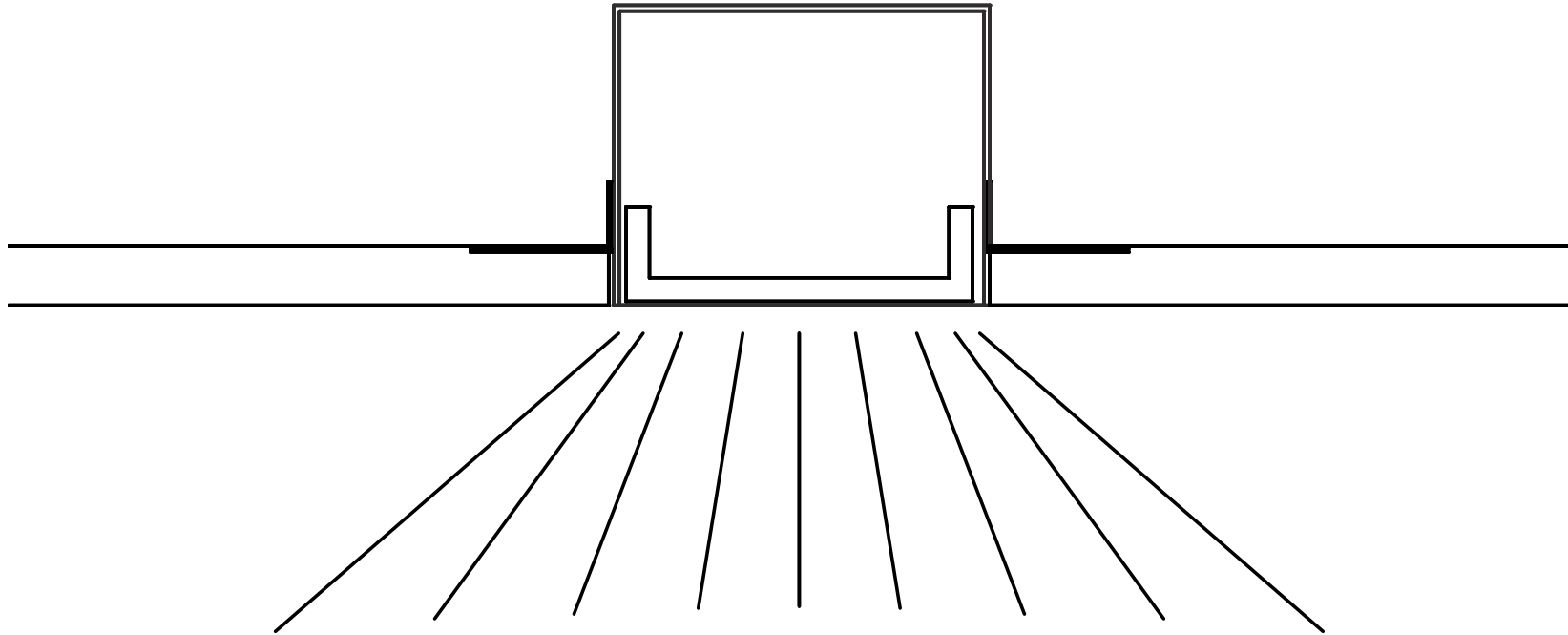
## Paint with primer and finish



Rough-in Lens Installed

Use blue masking tape to protect interior of fixture.  
Paint Housing edge and fast set area with  
primer and finish paint.

## Energize Fixture



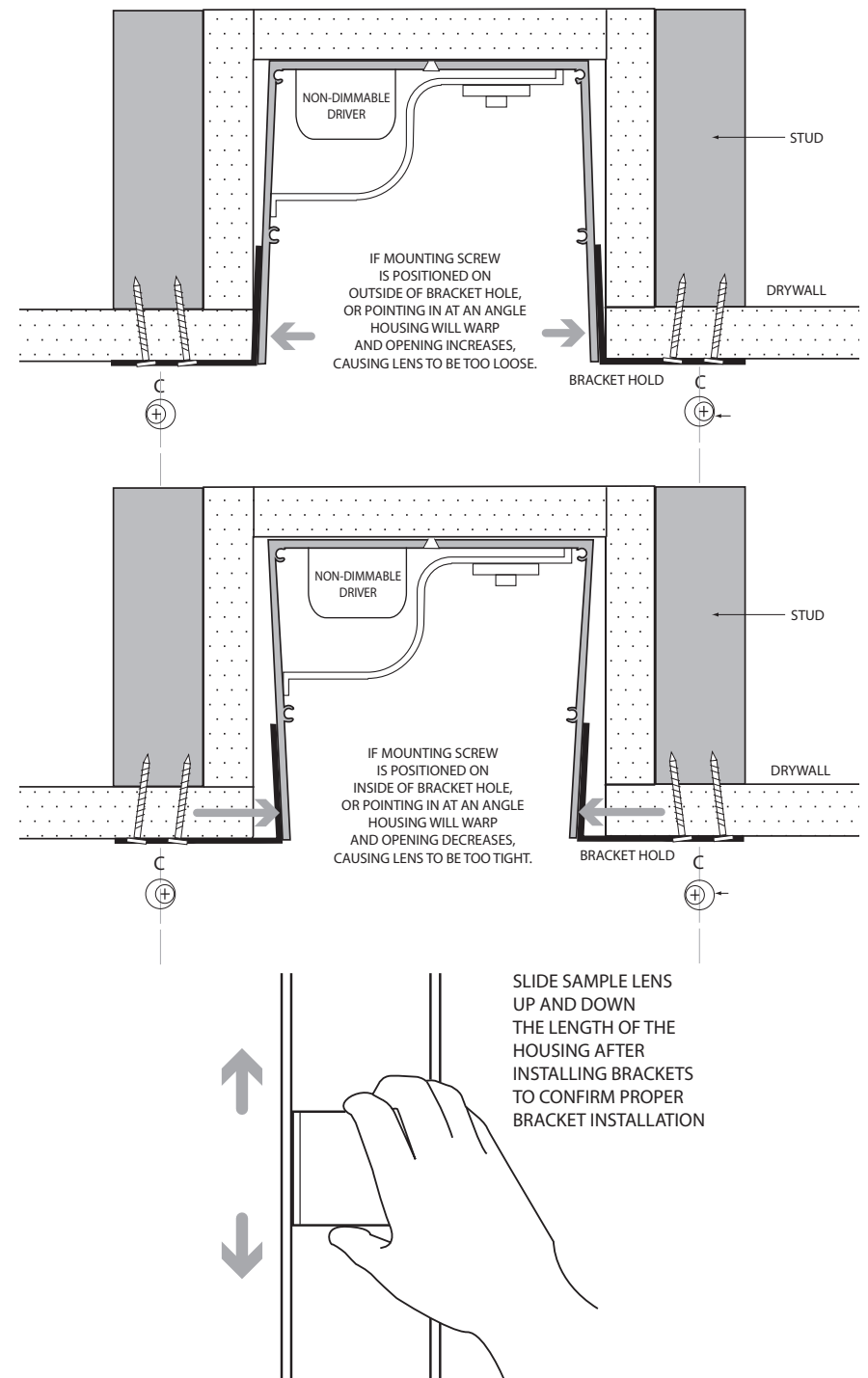
After painting is complete, remove metal spacer and masking tape. Clean interior of fixture and lamps. Install Lens and energize fixture.

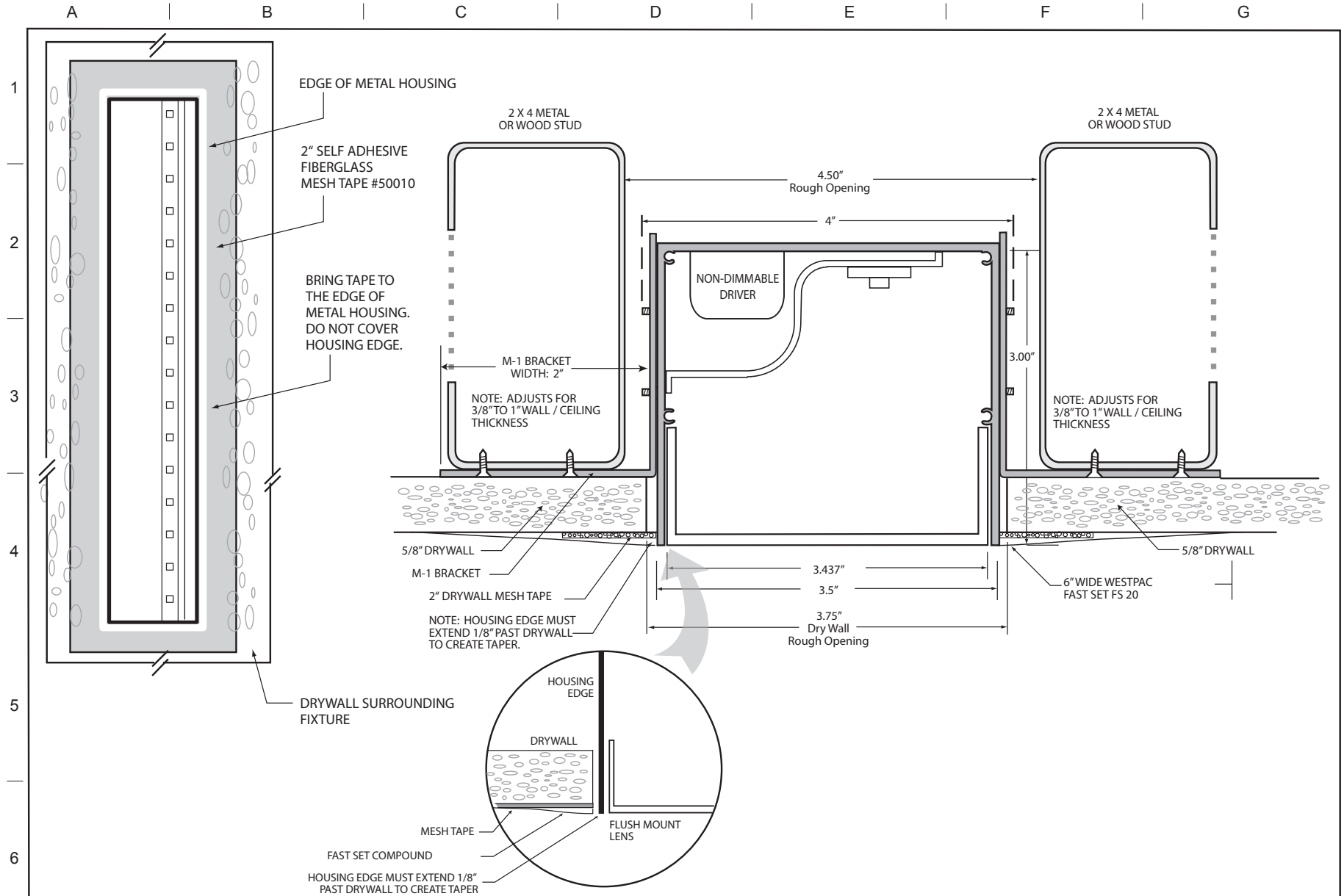
# DLED-9000 Series LED Miniature Installation Bulletin: How to avoid a warped housing and insure a proper, snug lens installation.

IT IS CRITICAL TO A SUCCESSFUL INSTALLATION TO MAKE SURE THAT SCREWS DRILLED IN MOUNTING BRACKETS ARE DONE PROPERLY TO AVOID SHIFTING OF ARIA HOUSING THAT COULD CAUSE A SLIGHT WARPING OF HOUSING. PLEASE READ AND FOLLOW THESE INSTRUCTIONS CAREFULLY.

1. When inserting screws into DLED-9000 Miniature mounting brackets, make sure that screws are dead center in mounting holes, and at a true 90° angle. This will insure that the housing does not warp or move slightly due to off-center placement or angled insertion of mounting screws.
2. Incorrect placement of screws and an angled pitch will cause housing to warp and move slightly. This will cause a faulty lens installation.
3. When DLED-9000 Miniature fixture is installed per instructions above, take lens section and run it up and down the opening in DLED-9000 Miniature housing to insure that housing sides are even and parallel to each other. If lens sample catches or if you notice bends or gaps between the housing and lens, screws have not been placed correctly.

Lens section should slide evenly and snugly along the full length of the DLED-9000 Miniature housing.





specifications subject to change without notice

CORPORATION:

**dreamscape**  
LIGHTING MFG., INC.

MATERIAL	DRAWN RICHARD	DATE 01-03-2012	TITLE DLED-9000 LED SERIES MINIATURE INSTALLATION DETAIL SHOWING ROUGH OPENING AND METAL STUDS	
FINISH	DESIGN	DATE	SIZE	PART NO.
DIMENSIONS A/F IN:	ISSUED	DATE	SCALE: 1.0 - FULL	SHEET
NOTE: THIS DRAWING CONTAINS PROPRIETARY INFORMATION. UNAUTHORIZED USE OR COPY WILL VIOLATE INTERNATIONAL COPYRIGHT LAWS.				



Project:

**DLED-9000 LED Series Miniature Flush Mounted Trimless Accent Light Specification Sheet**

A MINIATURE RECESSED TRIMLESS NON-DIMMING LED LINEAR FIXTURE, W/ SCREWLESS DECORATIVE U-SHAPED EXTRUDED WHITE ACRYLIC DIFFUSER

Lamping: See Chart

Cat. No: DL-90 LED

Date:

Type:

**Fixture Description:**

Miniature recessed trimless linear LED fixture with integral flush-with-drywall self-finishing housing and screwless decorative white acrylic diffuser. Suitable for wall or ceiling mount applications.

**Features:**

1. Diffuser: U-shaped white acrylic. Diffuser attachment friction fit or clips. Sand blasted white finish available (B-Matte).
2. Lamping: LED
3. Driver: Integral 120V instant-on electronic non-dimming constant voltage driver, UL listed, Class P FCC compliant, Class A sound rating.
4. Adjustable L-Bracket: Allows for 3/8" - 1" variable recessed depth alignment.
5. Housing: Fixture wall is .0625 extruded aluminum.
6. White powder coated ballast and wiring cover.
7. Fixture has one 1/2" knockout on each end.
8. Lenses: White extruded acrylic Flush Mount (FL) or Overlap Mount (OL).

**Housing Dimensions:**

3.50"W x 3"D

Length: See Chart

**Labels:**

Non IC

ETL Listed Damp Location - Conforms to UL1598, Certified Canada CSA 22.2

**Patent:**

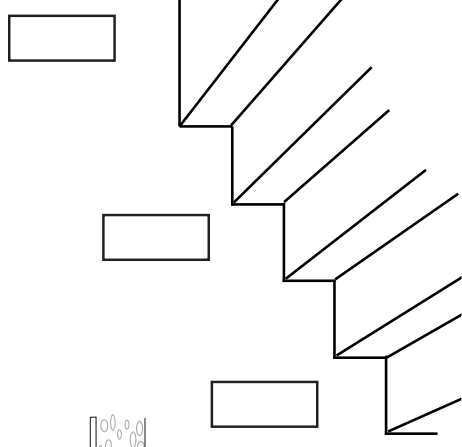
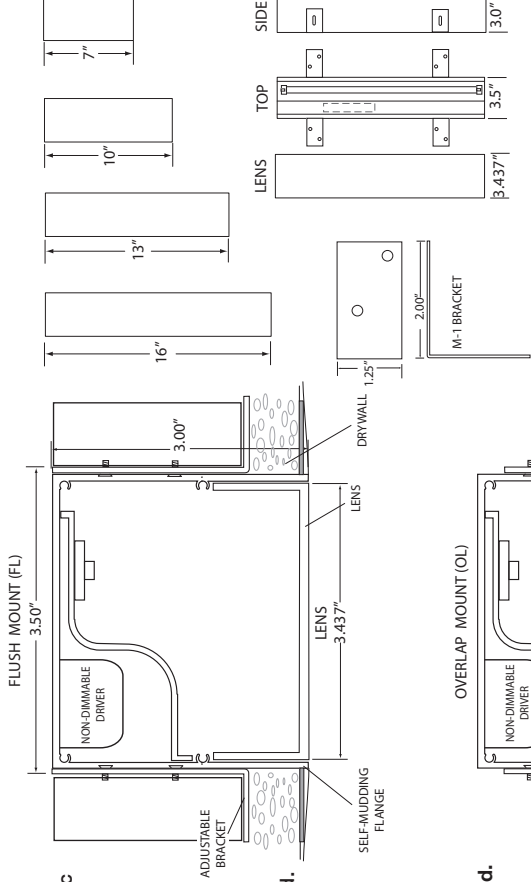
Design Patent No.

473,670S

US Patent No. US 6,616,309 B2

**Options:**

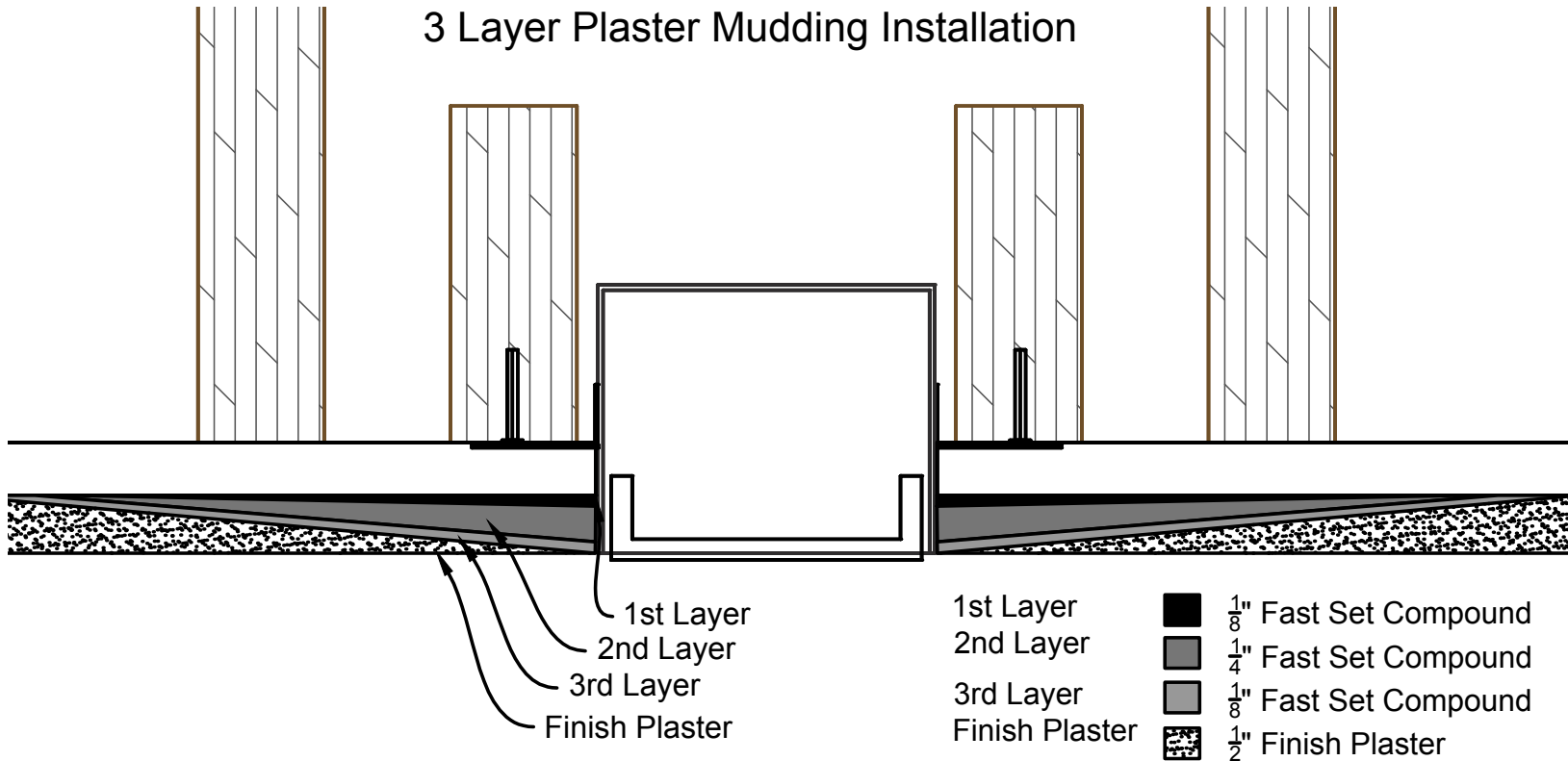
Voltage: 120 volts standard, 240V optional



**DLED-9000 MINIATURE ACCENT/TASK LIGHT SELECTION GUIDE**

Type	Item No.	Specify Lens Overlap OL	Specify Lens Flush FL	Lens Type B	Specify Color Temp. 2700	Specify Voltage 120V	LED Wattage	LED Lumen Output	LED Life (Hours)	Fixture Length
DL	9007-LED				2700	120	4W	180	35,000	7"
DL	9010-LED				2700	120	4W	180	35,000	10"
DL	9013-LED				2700	120	5.1W	230	35,000	13"
DL	9016-LED				2700	120	7.1W	345	35,000	16"

### 3 Layer Plaster Mudding Installation



- 1.) Install fixture as per standard instructions except, extend fixture edge  $\frac{1}{2}$ " past later installed drywall.
  - 2.) Follow standard instructions on mudding, with the following exceptions:
    - i. First coat to be  $\frac{1}{8}$ " thickness
    - ii. Second coat to be  $\frac{1}{4}$ " thickness
    - iii. Third coat to be  $\frac{1}{8}$ " and blend into surrounding  $\frac{1}{2}$ " plaster.
- Be sure to allow each coat to fully dry before proceeding to the next step.

Taper 9 to 12 inches away from edge of fixture, blending fast set into the ceiling plane .

**Important:** Be sure no mudding residue collects on the inside edge of the housing. Inspect and keep clean. Let this step dry for at least two days before starting finish preparation. Be sure Rough-in Lens is installed while drying.

Project:

## Westpac Installation Materials for Aria Linear Lighting Installations

Date:

Type:



### Westpac Prep Coat

A ready mixed drywall primer designed to improve the quality of the drywall finish. It is recommended for use prior to the application of texture or decoration to minimize texture variation between finished gypsum board and gypsum board face paper. NOTE: It is not considered as a 'sealer', or an architectural coating.

Use where illumination can highlight surface differentials visible in texture and painting. When applied over a properly finished drywall installation, Prep Coat provides a surface with minimum differential, especially under harsh side-lighting, gloss finishes, or light textures are present.

Provides a smooth sandible surface ready for texture of final decoration. Please apply in accordance with local building codes, and as recommended by the Gypsum Association.



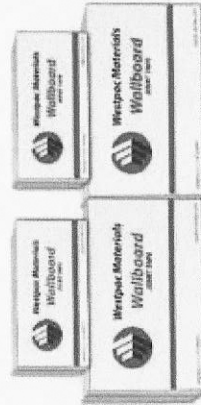
### Westpac Fast Sets

Mixes easily and produces a smooth, sandable finish  
FS 20 = 20 minutes • FS 40 = 40 minutes • FS 90 = 90 minutes

#### Fast Set Lite

A lighter weight fast set, affording the same volume of the 25 lb. bag in an 18 lb. package. Fast Set Lite offers improved mixing and sanding without compromising the integrity of the finished product.

FS 5 LITE = 5 minutes • FS 20 LITE = 20 minutes • FS 40 LITE = 40 minutes  
FS 90 LITE = 90 minutes



### Westpac Wallboard Joint Tape

Perforated to reduce blistering, center creased to ease application and buffed for superior adhesion. Designed to meet ASTM Standard C-475 when applied in accordance with ASTM C-474. Made from heavier paper than standard wallboard tapes to decrease stretching, wrinkling and cracking problems.

#### Premium Wallboard Tape

250 Feet Tape = 20 Rolls Per Case  
500 Feet Tape = 10 rolls per case

#### Wallboard Tape (Blue Label)

75 Feet Tape = 20 Rolls Per Case  
250 Feet Tape = 20 Rolls Per Case  
500 Feet Tape = 10 rolls per case

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# NOTES

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