

OBEX™

COMPLEX ENVIRONMENT LUMINAIRE

SEE WARNINGS ON CARTON 

CAUTION! – READ THIS FIRST - IMPORTANT SAFETY INSTRUCTIONS

Carefully read the instructions pertaining to your fixture.

IF YOU HAVE ANY QUESTIONS REGARDING THE PROPER INSTALLATION OR LOCAL CODES, CONSULT A QUALIFIED ELECTRICIAN.

- To avoid shock hazard, do not work with live electrical wires.
- Install the fixture only in indoor applications.
- Do not install outdoors or in applications other than the intended use.
- Install and wire the fixture in locations in compliance with the National Electric Code and any local codes.
- Do not remove any protective films over the lens or reflectors until installation is complete.
Do not energize the fixture without removing the protective films from the lens or reflectors.

WARNING: THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTIONS AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.

WARNING: RISK OF FIRE, MINIMUM OF 90°C SUPPLY CONDUCTOR. CONSULT A QUALIFIED ELECTRICIAN TO ENSURE CORRECT BRANCH CIRCUIT CONDUCTOR.

WARNING: TO AVOID SHOCK HAZARD, DISCONNECT THE POWER AT THE PANEL BOARD (CIRCUIT BREAKER BOX) BEFORE BEGINNING INSTALLATION.

A. GRID INSTALLATION

The OBEX luminaire can be installed into standard suspended grid ceilings with a 1" or 1.5" high grid. The weight of the luminaire is supported by the grid and supplemented with direct connection to the building structure. The steps for installation are as follows:

1. Inspect the mounting surface to make sure that it is structurally sound and relatively flat. If there is excessive bowing in the wall, shims may be required to ensure that the Back Plate is flat when installed.
2. Position the Back Plate against the wall as shown in *Figure 2* so that wiring access hole is positioned over the electrical junction box. Use a level along the top edge of the Back Plate and adjust accordingly until the Back Plate is level.
3. Use the Back Plate as a template and mark the mounting holes on the wall.
4. Install an appropriate wall anchor at the marked mounting holes. If a mounting hole aligns with the wall structure, an anchor may not be required.
5. Pull the supply wiring through the wiring access hole and align the Back Plate to the previously marked mounting holes. Attach the Back Plate to the wall.



Figure 1: Ceiling Tiles

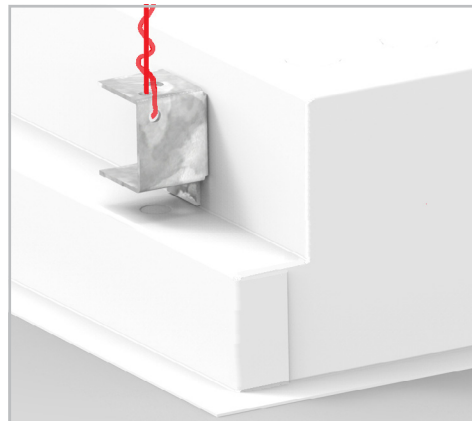


Figure 2: Hanger Tab

OBEX™

COMPLEX ENVIRONMENT LUMINAIRE

B. FLANGE INSTALLATION

The OBEX luminaire can be installed into a solid material ceiling when the “DW” ceiling option is specified.

1. To ensure an adequate seal between the flange and the ceiling system, it is important to have a square opening and a flat ceiling surface. When gypsum is used as the base material it should have adequate thickness to resist bowing. Make a ceiling cutout of 22.75" x 46.75" (2x4), 22.75" x 22.75" (2x2) and 10.75" x 46.75" (1x4). The cutout opening should be accurate to within a 1/16 of an inch. It is recommended that the ceiling opening should be cut into whole pieces of ceiling material to minimize seams and joints intersecting the cut opening. This limits stress on taped joints and ensures a better fit of the fixture flange against the ceiling surface.
2. Wing Hanger brackets are used to secure fixture to ceiling structure. After creating the ceiling cutout, frame the opening on the plenum side of the ceiling. See *Figure 3*.
3. Framing around the entire opening is recommended and should start at the rough opening. The minimum thickness of the ceiling material plus the frame material is 1-1/2". The maximum thickness of the ceiling and framing material is 2.25". Typically, 1-5/8" Unistrut is used to frame the opening because of its straightness, but straight lumber can also be used (framing material by others). See *Figure 3*.
4. To access the Wing Hanger Brackets, remove the Lensed Door Frame. The door frame is secured to the housing with #8 screws. See *Figure 4*.
5. The door frame is secured to the housing with tethers.
6. Remove the reflectors that are secured to the housing with #6 screws. See *Figure 5*.

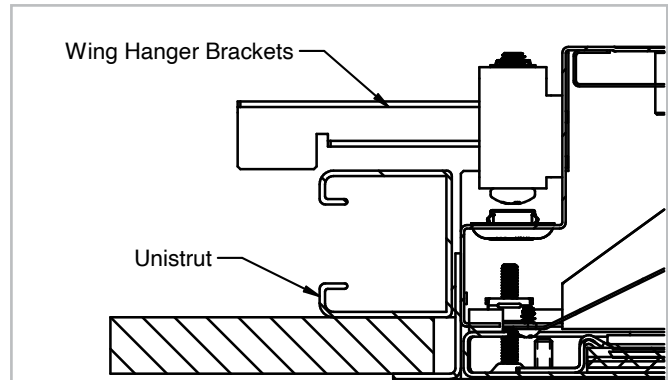


Figure 3: Wing Hanger

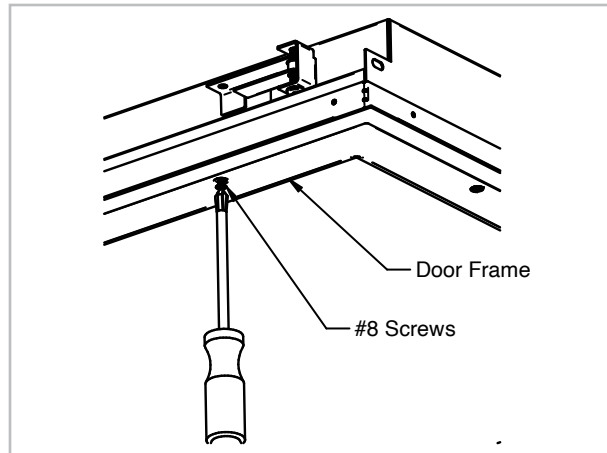


Figure 4: Door Frame Removal

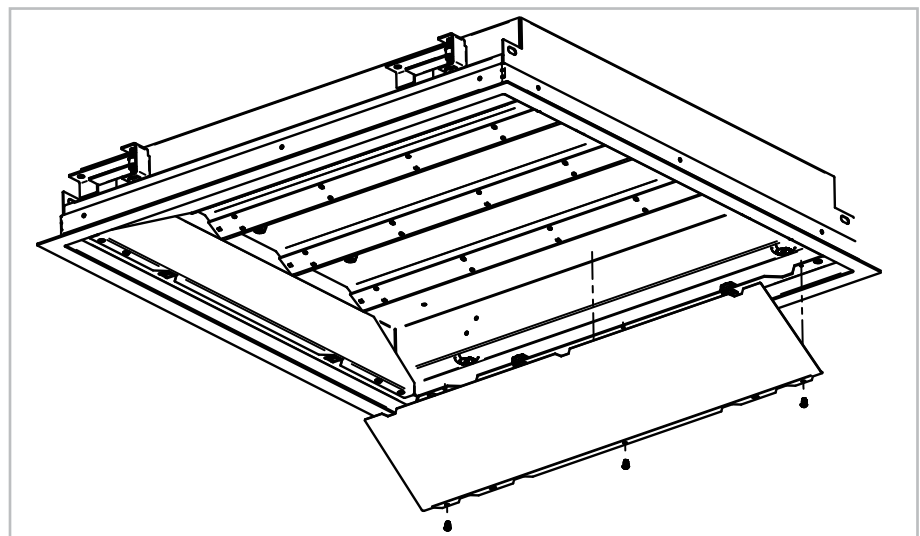


Figure 5: Reflector Removal

OBEX™

COMPLEX ENVIRONMENT LUMINAIRE

B. FLANGE INSTALLATION Continued...

7. Remove the rubber grommets covering the Wing Hangers. See *Figure 6*.
8. If sealing to the ceiling is required, place a continuous bead of caulk on the back side of the housing flange.
9. Lift fixture into ceiling opening, ensuring the wing hangers are not caught on the opening.
10. Once through the opening, turn each of the 4 Wing Hanger Brackets using a Philips head screwdriver. The Wing Hanger Brackets require turn to swing the arm away from the housing. See *Figure 7*.
11. Once all the Wing Hanger Brackets have been turned, continue tightening the Wing Hanger Screws until the fixture is firmly seated to the ceiling.
12. Proceed to Section "C".

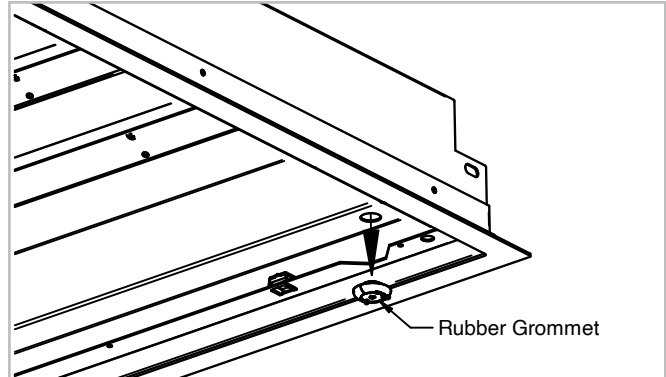
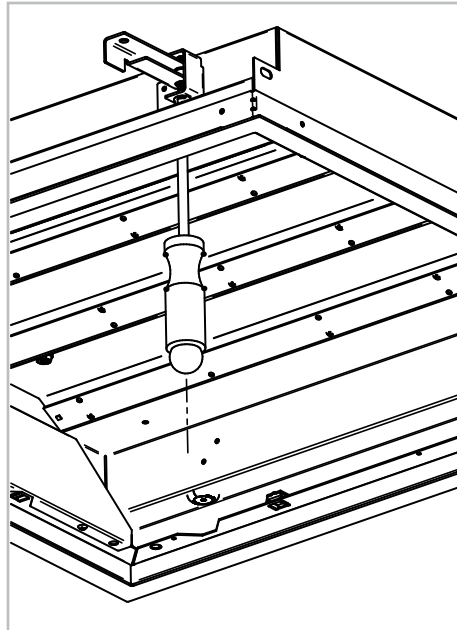


Figure 6: Rubber Grommet Removal



1. Figure 7: Wing Hanger Engagement

OBEX™

COMPLEX ENVIRONMENT LUMINAIRE

C. MAKING ELECTRICAL CONNECTIONS

Note: The circuit should be shut-off at the breaker before beginning this step.

1. If Lensed Door is present, remove #8 screws around door frame and let the door hang down by tethers.
2. Remove the reflectors that are secured to the housing with #6 screws. See *Figure 5*.
3. Secure conduit or cable (supplied by others) to the back of the housing through a knockout.
Note: if a threaded hub or equivalent fitting listed for Wet Locations must be used. Locate the leads for the Ambient, Exam, LVC, and/or Night Light loads depending on product configuration, and connect accordingly.
4. If an emergency battery backup is present, follow supplementary Installation Instruction.

D. FINAL INSTALLATION STEPS

1. Reinstall the reflector assembly using #6 screws. One side of the reflector hinges in the LED tray.
2. Reinstall Lensed Door. Ensure O-rings are present on screw flange to maintain a sealed fixture.
3. If present, remove film from Lensed Door.