# Installation Instructions
## Model Number 1047-HLA

**Assembly Components:**
- *Ceiling enclosure Model 1047-HLA assembly – 1 each*
- *#8-32 x 1/4" screws - 4 each*
- *Keys for access door lock – 2 each*
- *1" Trade Size conduit connector – 1 each*
- *Support wire – 4 each*
- *Firestop Grommet – 1 each*

If any of these items are missing, contact your Oberon representative.

Find a flat work surface to assemble the *ceiling enclosure, access point* prior to mounting in ceiling.

To make assembly easier, the door can easily be removed from the enclosure by opening the door to a 90° angle and aligning the tabs of the door mount to the slots in the backbox hinge opening and sliding the door forward (Ref. *Figure 1*).
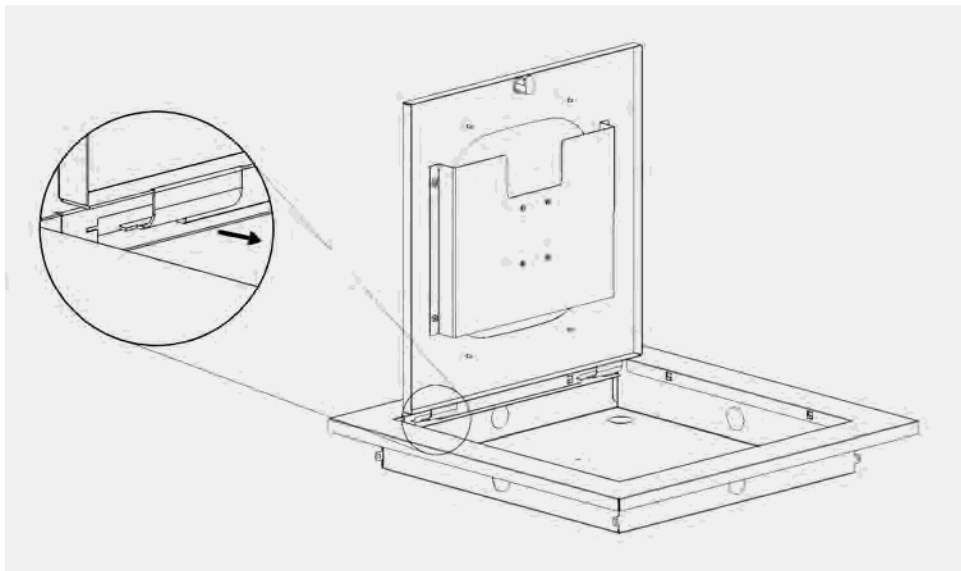


**Figure 1 - Door Removal**

Step 1 – Place the *ceiling enclosure assembly* on the work. Determine which knockout is to be used to bring in the Ethernet cable and remove the knockout. (Ref. *Figure 2*). Install the conduit fitting from the inside of the enclosure. Insert the conduit fitting through the hole with the nut installed from the outside of the enclosure. If using Power Over Ethernet (P.O.E.) use 1 conduit fitting. If P.O.E. is not being used, install an additional conduit fitting (not supplied) in separate knockout and bring power and Ethernet into the enclosure through separate fittings (Ref. *Figure 2*).
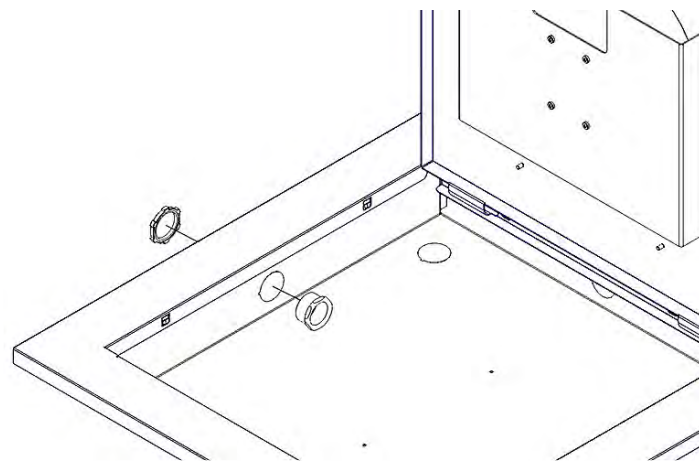


**Figure 2 - Conduit Fitting Installation**

Step 2 – To install the CIsco AP with HLA module, remove the enclosure's aluminum mounting plate from the door by removing the four (4) nuts that attach the mounting plate. (Ref. *Figure 3*).

Once the mounting plate has been removed, attach the Cisco AIR-BRACKET-2 to the enclosure's mounting plate using four #8-32 screws (provided). The Cisco Mounting bracket should be aligned so that the Ethernet cable will face towards the cutout in the enclosure's mounting plate.

Once the Cisco mounting bracket has installed, attach the Cisco AP with HLA module. When attaching the Cisco AP, be aware that all of the HLA modules in the building should be pointing in the same direction (reference Cisco documentation for details). To aid in installation, the enclosure's mounting plate can be rotated in any of four (4) different directions.
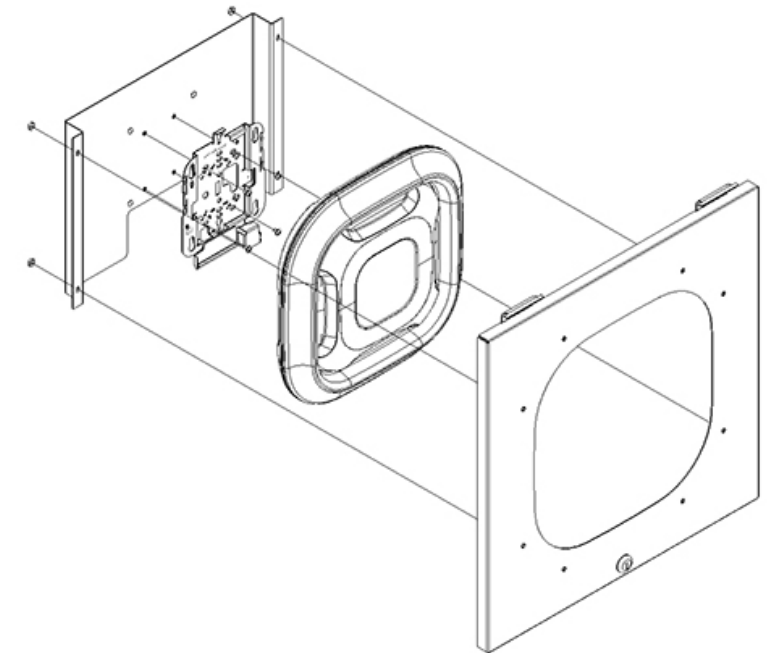


**Figure 3 – Installation of cable clamp(s)**

Step 3 – Remove the ceiling tile and replace it with the completed *access point enclosure* assembly.



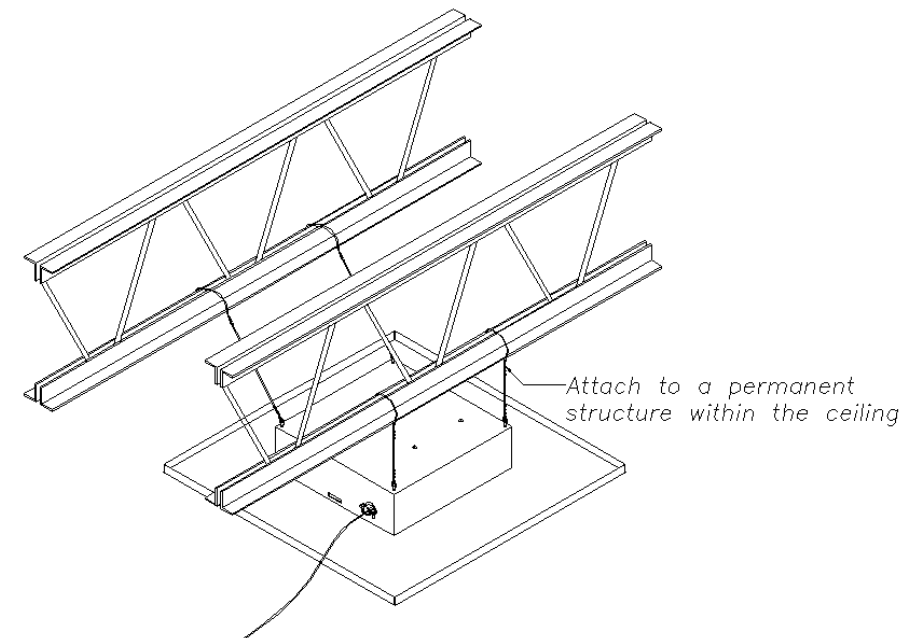*Attach to a permanent structure within the ceiling*

**Figure 4 - View showing enclosure installed in ceiling grid.**

wire to secure the *access point enclosure* in the ceiling grid. Attach one end of the wire to the *eyebolts* and the other end to a permanent structure within the ceiling such as a ceiling joist (Ref. *Figure 4*).

⚠ **\*\*IMPORTANT\*\*** - *This is an important safety feature that could prevent human injury or damage to the access point, should the unit become dislodged from the ceiling grid.*

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Step 5 – Run the data and power cable (if required) through the conduit connectors located on sides of the *access point enclosure*. In order to maintain a separation of signal and power, install the data and power cables through opposite sides of the enclosure utilizing the two knock-outs provided. Pull the data cable through the conduit connector far enough to allow attachment to the access point (8" - 10"). Snap the grommet on to the cable and slide it inside the conduit connector.
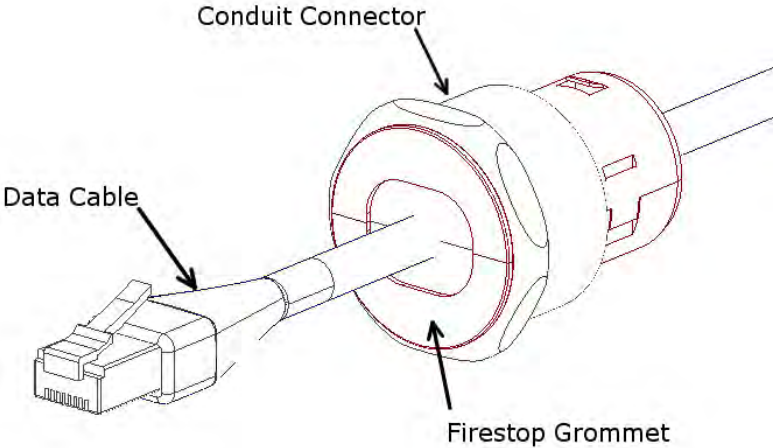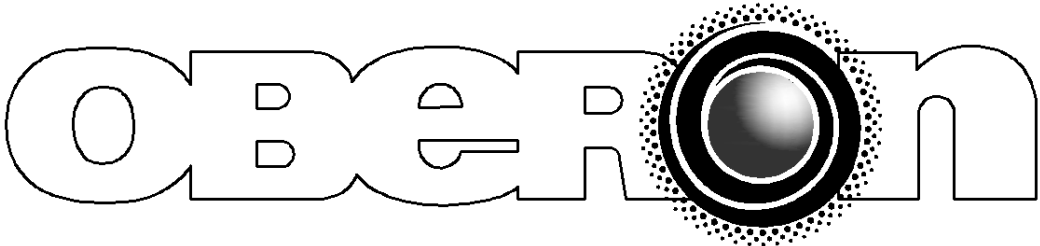


**Figure 5 -** Pull the data cable through the conduit connector far enough to allow attachment to the access point (8" - 10"). Snap the firestop grommet around the data cable so that there are no air gaps.

Step 6 – Attach data and power cables to the *access point* through the access door then tighten the screws on the cable clamp.

Step 7 – Close and lock the access door. The installation is now completed.

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# **** WARNING ****

## Please thoroughly read the product warning below before installation to provide for a safe work environment.

1. Ceiling mounted products should be installed in accordance with National Electric Code paragraphs 300.10 (Electrical Continuity of Metal Raceways and Enclosures) and 300.11 (Securing and Supporting). Independent support wires or other means must be used for the installation of this product in the ceiling. Acoustical, suspended, false, drop and concealed spline ceiling grid work is not designed to support the weight of this product. Oberon's ceiling mounted products have four support wire tabs on the back box. These tabs shall be used for supporting the product with independent support wires, wire rope, threaded rod, or other secure support means of adequate gauge and fire resistance.

2. When closing the enclosure access door, be sure that the cam lock is completely engaged to prevent the access door from accidentally swinging open.

3. When opening the enclosure door, be sure to support the door to prevent the door from accidentally falling open.

4. This enclosure has a maximum operating ambient of 55º C (131º F), the temperature within the enclosure may not exceed this temperature, depending on power dissipation within enclosure.

5. A minimum air clearance of 1" between the housing of the access point and the enclosure side walls must be maintained for the safe operation of the equipment.

6. This product is intended to be installed by trained personnel.

7. Only Listed ITE products shall be installed within the enclosure.

8. This product is to be repaired by personnel trained by the manufacturer or returned to the manufacturer for repair or replacement.

9. Maximum weight to be installed in the unit is 25 lbs.

10. All knockouts, openings, and holes shall be sealed with a plug constructed of metal, or a non-metal material that complies with UL 2043 or UL 1479.

11. All unused mounting holes should be sealed with tape or other material that complies with UL 1479.

12. AC Power is not to be used inside the enclosure.

13. See OSHPD approved installation drawing where applicable