



System Overview

These instructions review how to install suspended DecoForm fixtures. These fixtures are standalone by nature, so they only require the ceiling mounting kits in addition to the fixture. The mounting options include **single point** and **multi point mounting**. Please refer to layout drawings supplied by Ledalite in conjunction with these installation instructions.

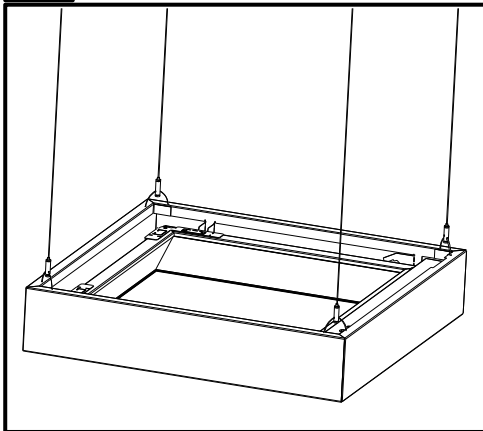
IMPORTANT: Read all instructions including fixture/sensor wiring AND mechanical details **before** beginning installation.

Sensor wiring is found in the [LEDALITE CONTROLS DESIGN GUIDE: SENSOR INSTALLATION AND SET-UP](#)

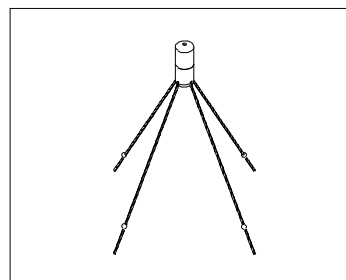
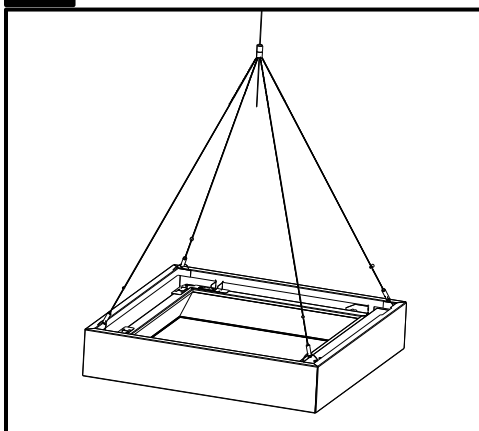


Ledalite Controls
Design Guide

Multi Point Mount



Single Point Mount



Single Point Mount Kit

- Cable fitting assembly
- Threaded gripper
- Fitting top cap

WARNING: Minimum height 4ft 4in

Note on single-point mount: All mounting options require ceiling mount kits, which contains the vertical aircraft cable and ceiling interface. Single point mount further requires a single point mount kit to connect to the fixture.



Tools required - #2 Phillips **or** #2 Robertson screwdriver, needle nose pliers (optional), Heyco PN0019(R12) crimping pliers, wire stripper/cutter, level, & pliers.



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

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

**Warning! Shock Hazard!****IMPORTANT:**

Disconnect or turn off power before attempting any installation, service or maintenance.

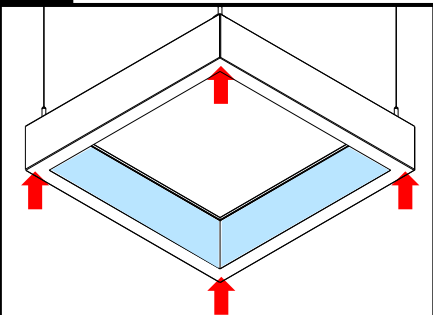
**Warning! Shock Hazard!****IMPORTANT:**

Fixture must be connected to building ground via the provided ground wire before re-connecting to mains power supply.

**Installation**

Read all instructions including fixture/sensor wiring and mechanical details before beginning installation.

Beware of sharp edges on fixture.

**Handle With Care**

- Do not put pressure on the lens during installation.
- Lift using both hands from the edges only.

**Installation Warning****Single Point Mount:**

Do not install the fixture near vents. Air movement may cause fixture to sway or rotate.

**Power Feed Location**

The fixture is aesthetically symmetrical when viewed from below and can be oriented in any direction to best accommodate a power drop point.

**Installation Notes**

Arrange boxed fixtures on floor in specified mounting locations, based on supplied layout drawings. Remove fixtures from boxes. Install all ceiling mounting components and vertical aircraft cables using separate installation instruction for Aircraft Cable Mounting.

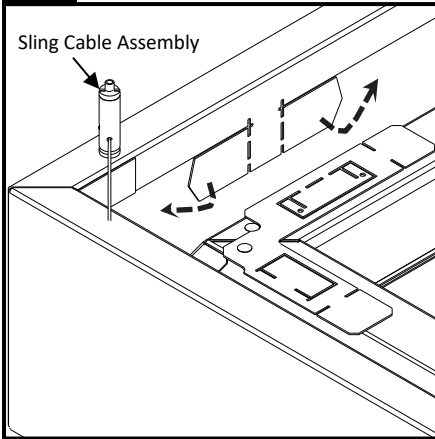
**Ceiling Mount Installation**

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

01	SUSPENDED FIXTURE	PG. 04
02	LEDALITE TILES	PG. 06
03	CUSTOMER SUPPLIED TILES	PG. 08
04	MULTI POINT MOUNT	PG. 10
05	SINGLE POINT MOUNT	PG. 11

Preparing fixture to be suspended from aircraft cables.

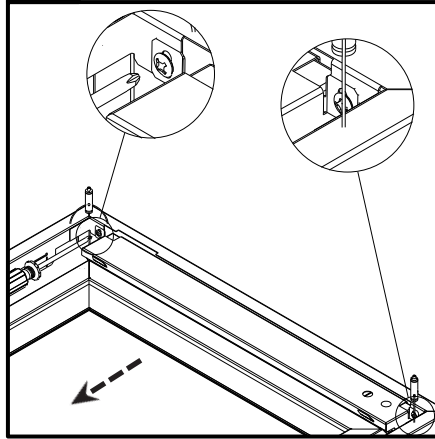
1 Bend centering flanges out



Bend centering flanges outwards on **BOTH** sides of the shell, opposite of the driver box and painted top cover.

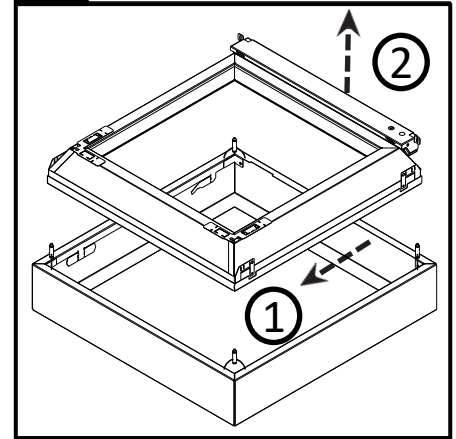
NOTE: The sling cable assembly is pre-installed, DO **NOT** REMOVE IT.

2 Remove top cover screws



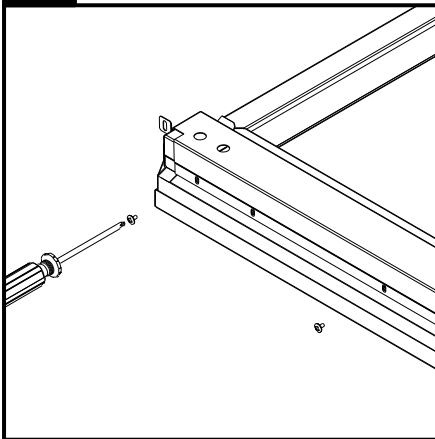
Remove both screws from the painted top cover using a #2 Phillips OR #2 Robertson screwdriver.

3 Remove fixture from shell



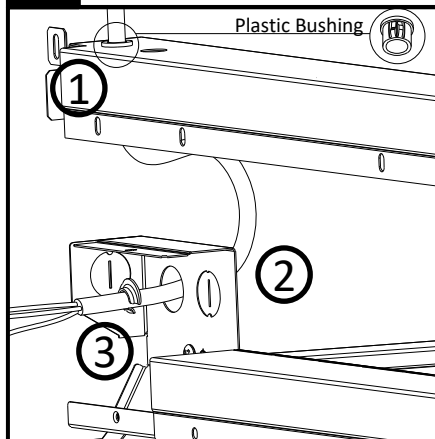
Safely pull the fixture back (1), and lift driver side up first (2) out of the shell.

4 Access the driver box



Remove the two screws using a #2 Phillips OR #2 Robertson screwdriver from the painted top cover to access the driver box.

5 Power cable & strain relief

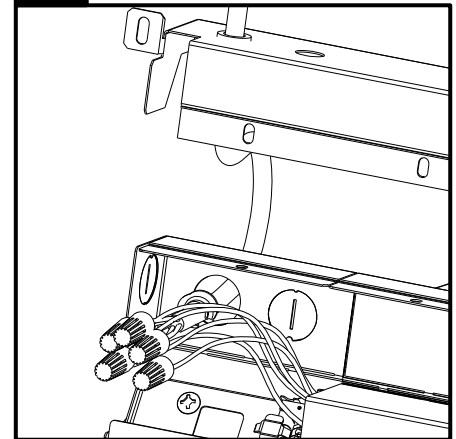


Attention: Install the white plastic bushing (provided) in the painted top cover.

Pass the power cable through the plastic bushing (1) **AND** the knockout in the wires access door of driver box (2).

Install and crimp provided cable metal strain relief bushing to secure power cord (3). Use a Heyco PN0019(R12) crimping tool to ensure proper installation.

6 Standard electrical connections

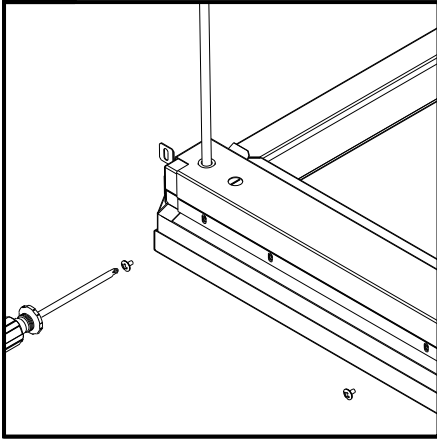


Make electrical connections using wire nuts (supplied by others).

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

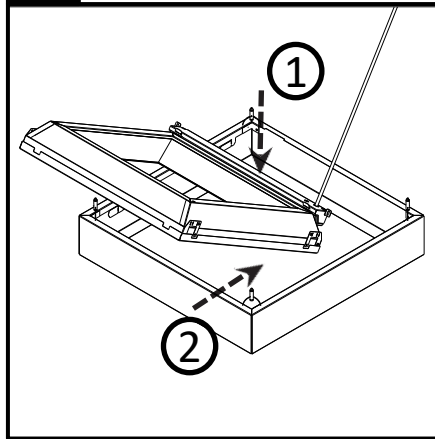
Preparing fixture to suspend from aircraft cables.

7 Closing driver box



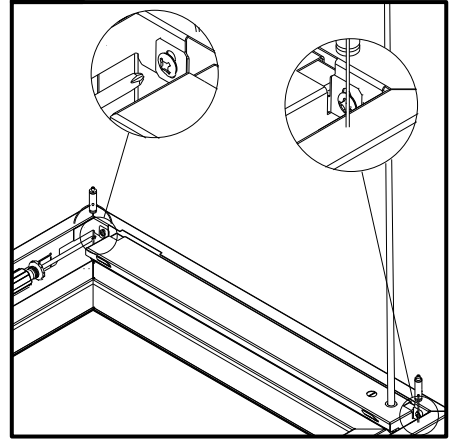
Close the access door, place the top cover and reinstall the two screws using a #2 Phillips OR #2 Robertson screwdriver.

8 Placing fixture in shell



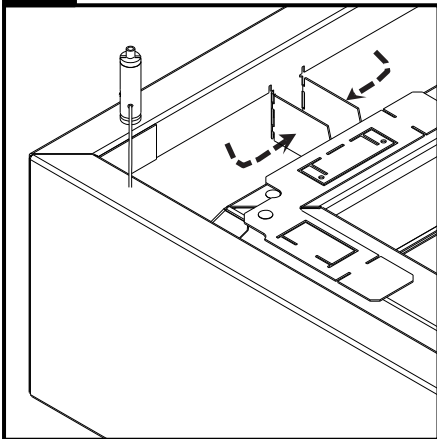
Safely insert the fixture back into the shell by inserting the driver side first (1) and pushing the fixture in (2).

9 Reinstall top cover screws



Reinstall both screws through the top cover using a #2 Phillips OR #2 Robertson screwdriver.

10 Bend centering flanges in

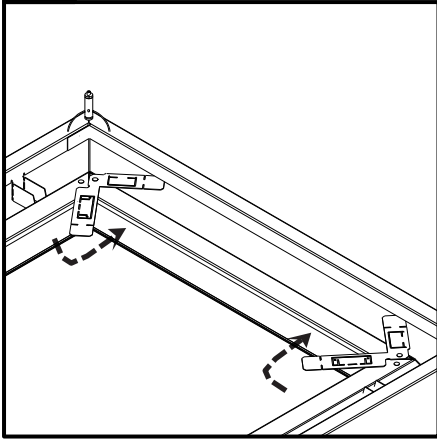


Bend the centering flanges inwards on **BOTH** sides of the shell.

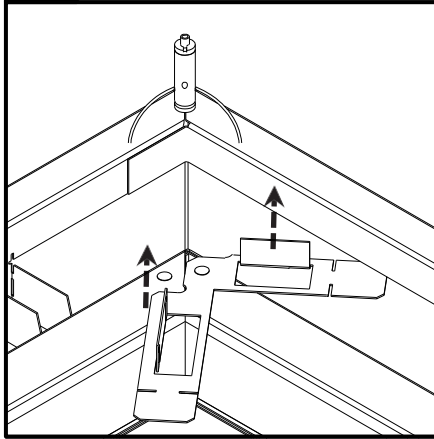
! **ATTENTION:** Install in accordance with local and national building and electrical codes.

Preparing Top Tile – Ledalite supplied

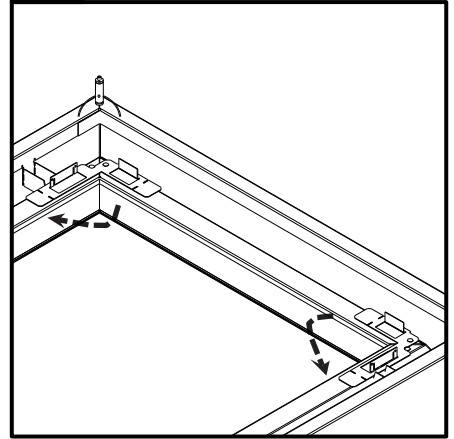
20.5" x 20.5" size - acoustic, acrylics and metal tiles by Ledalite.

1 Rotate the top brackets

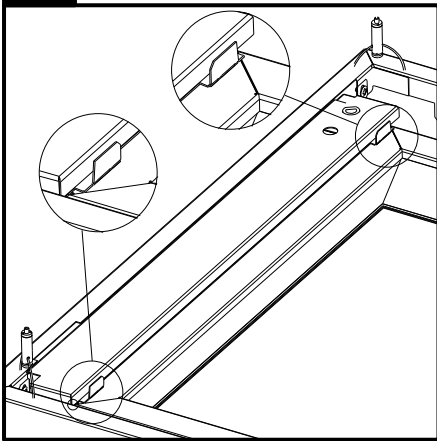
Rotate both top tile retention brackets, inwards, about 45°.

2 Bend tabs up on brackets

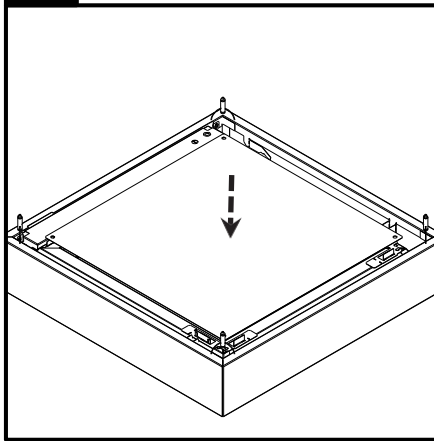
Bend both center tabs upwards on both top tile retention brackets.

3 Rotate the top brackets back in place

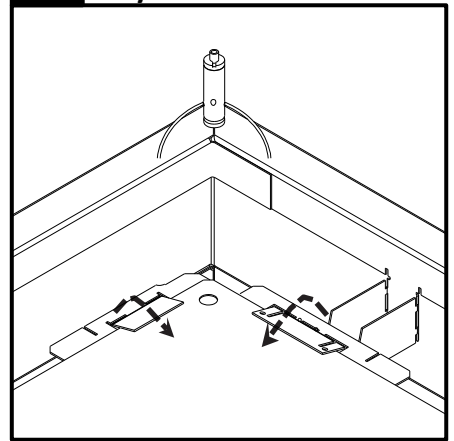
Rotate both top tile retention brackets back in place.

4 Bend fixture tabs upwards

Bend both fixture tabs upwards so they form a 90° angle (use needle nose pliers, if needed).

5 Place Top Tile

Place top tile between the bent-up tabs.
ATTENTION: Make sure the tile is sitting flush with the fixture.

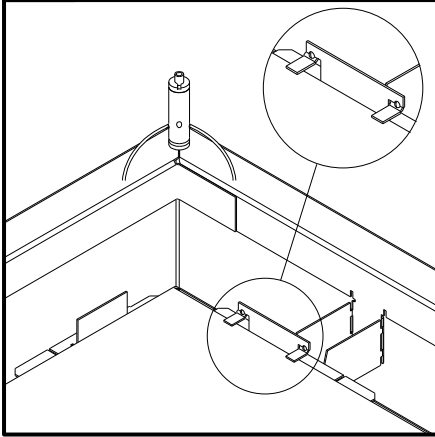
6A Vertical retention - acrylics and metal tiles

Fold all 4 tabs down on both Top Tile retention brackets.

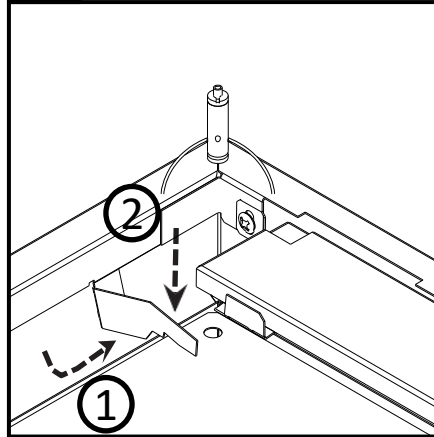
! **ATTENTION: Install in accordance with local and national building and electrical codes.**

Preparing Top Tile – Ledalite supplied (continued)

20.5" x 20.5" size - acoustic, acrylics and metal tiles by Ledalite.

**6B Vertical retention –
acoustic tile**

Bend 4 small extensions upwards on both Top Tile retention brackets (use needle nose pliers, if needed).

**7 Rotate retention flanges
on the shell**

Pull out (1) and rotate both retention flanges (2) on the shell about 90° and push down to touch the Top Tile.

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

IS-DF Top Tile Installation Sheet – Customer Supplied Tiles

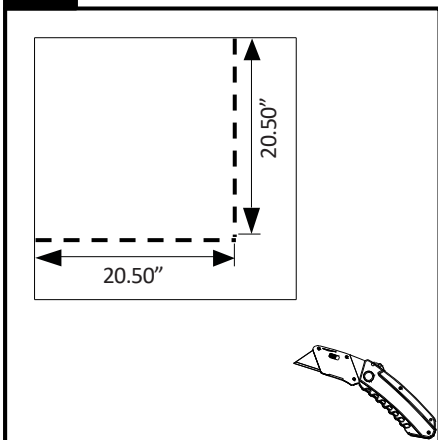
Preparing Top Tile – Customer supplied

24" x 24" nominal size

! DISCLAIMER! CUSTOM TOP TILES MUST COMPLY WITH LOCAL BUILDING CODES AND REGULATIONS. PLEASE ENSURE ALL MATERIALS USED MEET THE NECESSARY REQUIREMENTS.

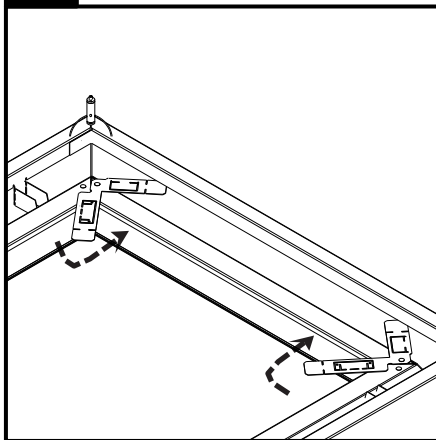
! Warning! Maximum allowable thickness is 0.50" (12.7mm) and maximum allowable weight is 5lbs (2.2kg) for custom Top Tiles.

1 Cut tile to size



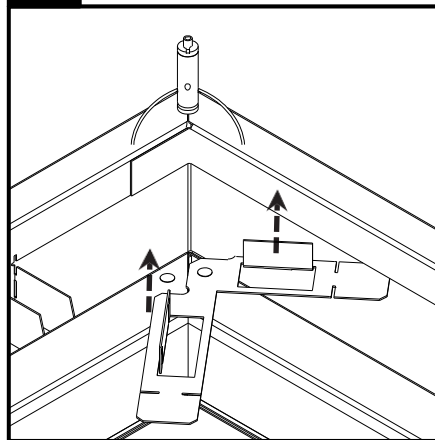
Carefully cut tile to size: 20.50" x 20.50"
(521mm x 521mm)

2 Rotate the top brackets



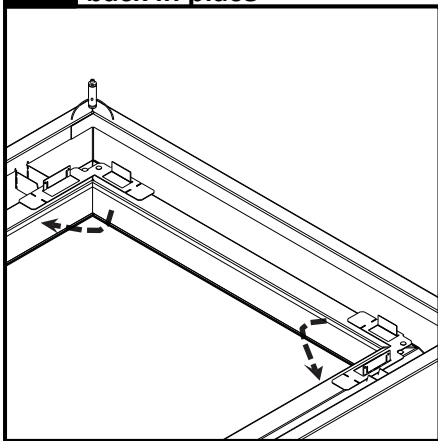
Rotate both top tile retention brackets,
inwards, about 45°.

3 Bend tabs up on brackets



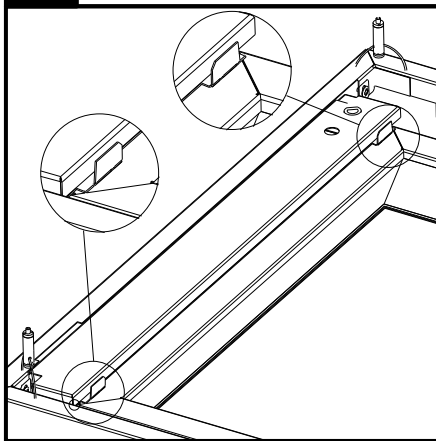
Bend both center tabs upwards on Top Tile
retention brackets.

4 Rotate the top brackets back in place



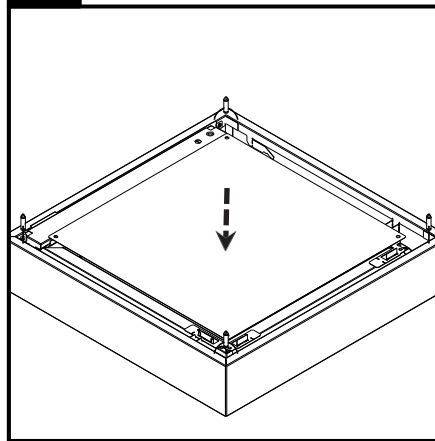
Rotate both top tile retention brackets
in place.

5 Bend tabs up on fixture



Bend both fixture tabs upwards so they
form a 90° angle (use needle nose pliers, if
needed).

6 Place Top Tile



Place top tile between the bent-up tabs.
**ATTENTION: Make sure the tile is sitting
flush with the fixture.**

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

IS-DF Top Tile Installation Sheet – Customer Supplied Tiles

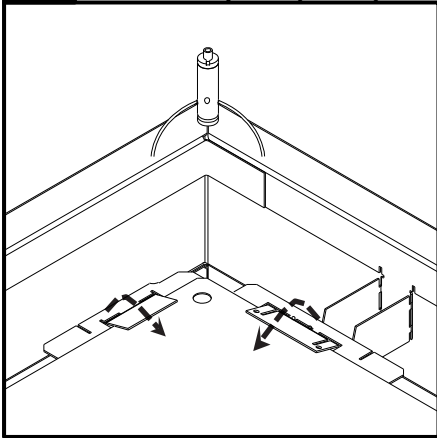
Preparing Top Tile – Customer supplied (continued)

24" x 24" nominal size

! **DISCLAIMER! CUSTOM TOP TILES MUST COMPLY WITH LOCAL BUILDING CODES AND REGULATIONS. PLEASE ENSURE ALL MATERIALS USED MEET THE NECESSARY REQUIREMENTS.**

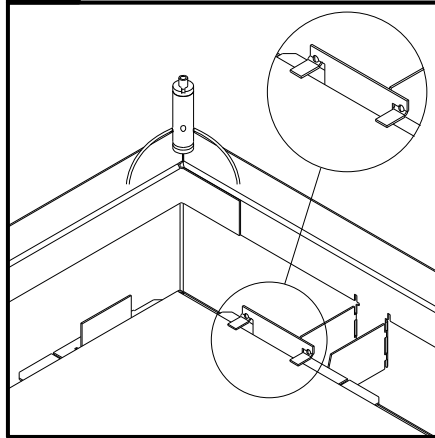
! **Warning!** Maximum allowable thickness is 0.50" (12.7mm) and maximum allowable weight is 5lbs (2.2kg) for custom Top Tiles.

7A Vertical retention – tiles less than 5/32" (4mm) thick



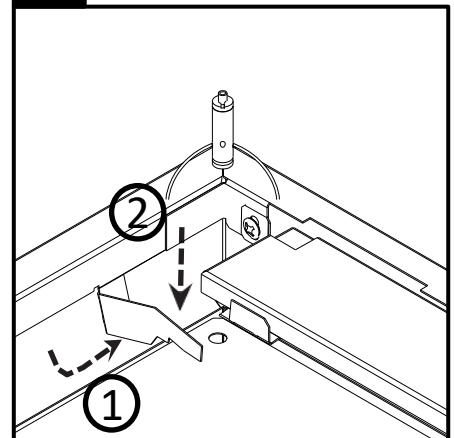
Fold all 4 tabs down on both Top Tile retention brackets.

7B Vertical retention – tiles greater than 5/32" (4mm) thick



Bend 4 small extensions upwards on both Top Tile retention brackets (use needle nose pliers, if needed).

8 Rotate retention flanges on the shell

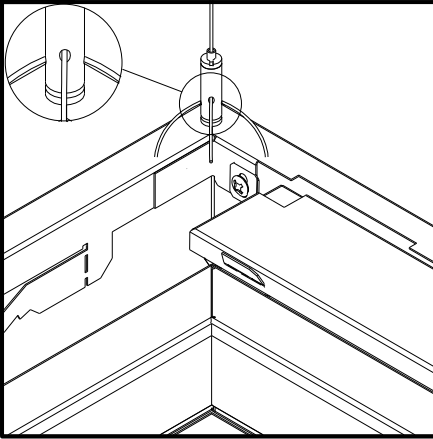


Pull out (1) and rotate both retention flanges (2) on the shell about 90° and push down to touch the Top Tile.

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

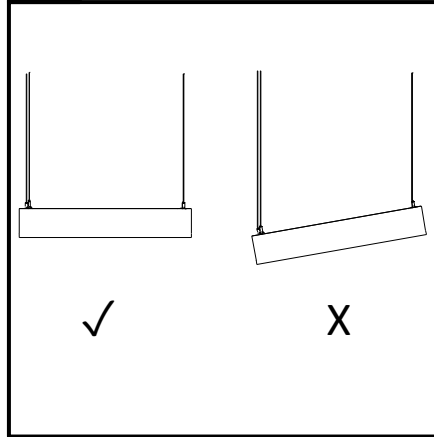
Suspending fixture from aircraft cables.

1 Fixture suspension



Raise fixture to the installed level and insert suspension cable into the sling cable assembly. Ensure end of the aircraft cable exits from side of sling cable assembly as shown.

2 Fixture leveling

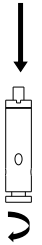


Ensure fixture is installed level. Do not install at an angle.

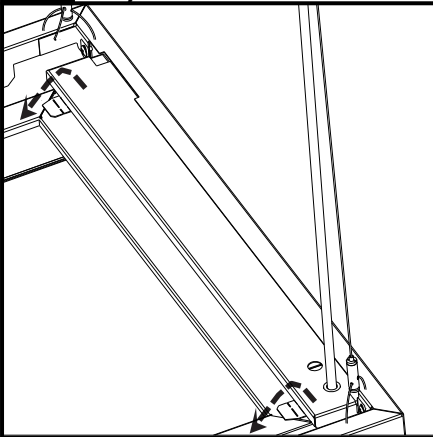
Note: see leveling instructions.

! Leveling instructions

IMPORTANT: For side to side adjustment of the cable gripper, loosen adjustment screw at bottom of cable gripper. For vertical leveling, support bottom of fixture, press plunger on top of cable gripper and slowly lift/lower fixture to desired position. Release plunger when complete. Ensure fixture is secure before removing support. Repeat the same process around the fixture. When complete, re-tighten side to side adjustment screw on each gripper by hand.

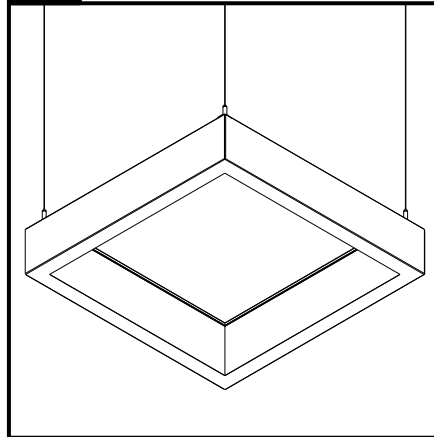


3 Fold fixture tabs (No top tile)



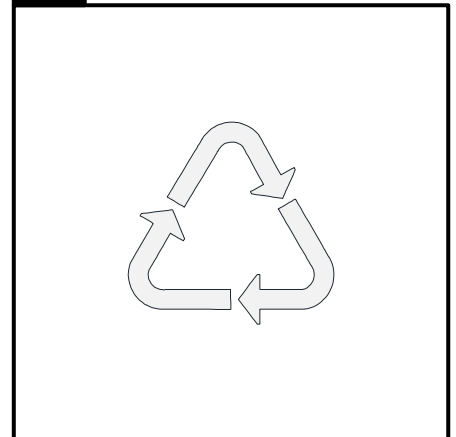
ATTENTION: If there is no top tile being used, fold both fixture tabs down so they are not visible from underneath.

! Attention



Make sure the tile is sitting flush with the fixture when seen from below.

4 Recycle



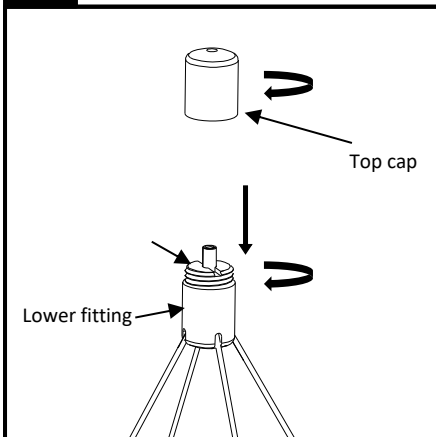
Recycle all packaging materials and unused contents.

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

Suspending fixture from aircraft cables.

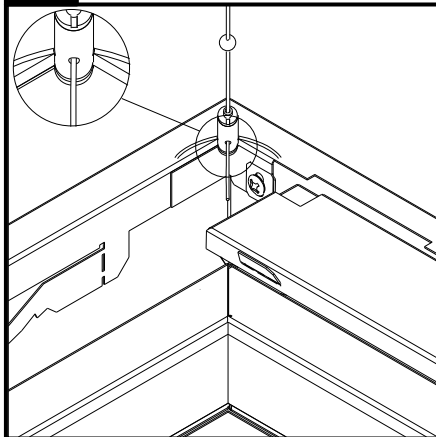
! **Warning!** Step 1 & 4 are critical for safe installation of the product Follow closely.

1! Prepare mounting



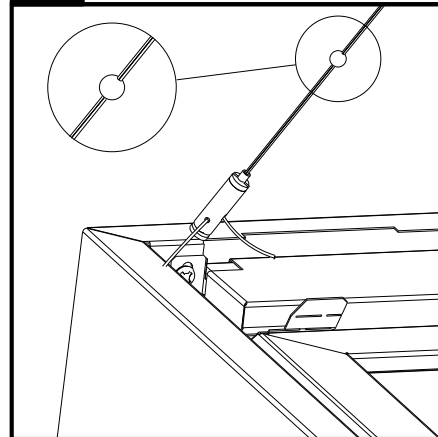
Prepare the single point mount converging cable kit by unthreading the top cap. Ensure the cable gripper bushing is bottomed out in the lower fitting tightly, then **loosely** thread the top cap back on.

2 Aircraft cable installation



Raise fixture to installed level and insert suspension cable inside sling cable assembly. Ensure the end of the aircraft cable exits from the side of the sling cable assembly as shown.

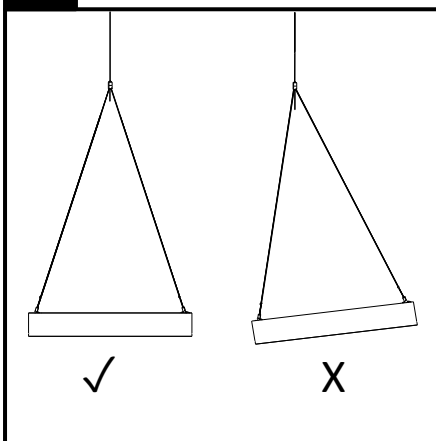
! CAUTION



The stopper on the suspension cable is to limit the angle of the cables within a safe range.

NOTE: Do not remove or break the stopper.

3 Fixture leveling



Ensure fixture is installed level. Do not install at an angle.

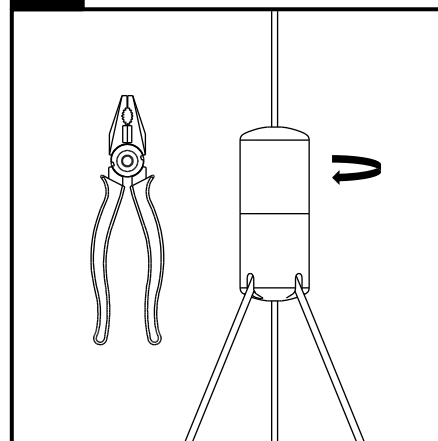
NOTE: See leveling instructions.

! Leveling instructions

• **IMPORTANT:** Find the desired vertical drop for the vertical and converging sections of the suspension assembly. First, set the vertical solely by adjusting the vertical cable drop length. Next tighten up the converging cables so the converging vertical drop is achieved. Note that the cable limiting crimps are in place to limit the cable angle to stay within the allowable working load limits. Do not force the cable past these limiters. The converging cables are used to level the fixture. For side to side adjustment of the cable gripper, loosen adjustment screw at bottom of cable gripper. For vertical leveling, support bottom of fixture, press plunger on top of cable gripper and slowly lift/lower fixture to desired position. Release plunger when complete. Ensure fixture is secure before removing support. Repeat the same process around the fixture. When complete, re-tighten side to side adjustment screw on each gripper by hand.



4 Mounting kit torquing

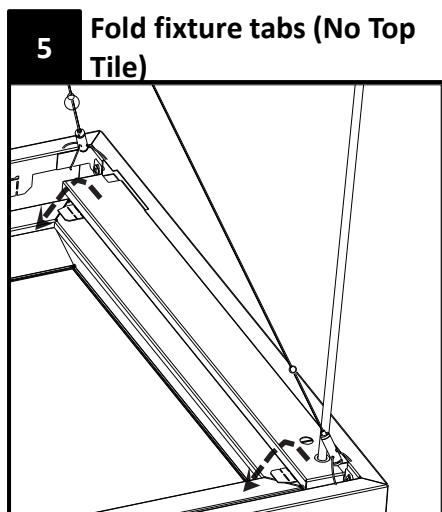


Use a cloth to protect the surface and a pair of pliers to tighten the assembly.

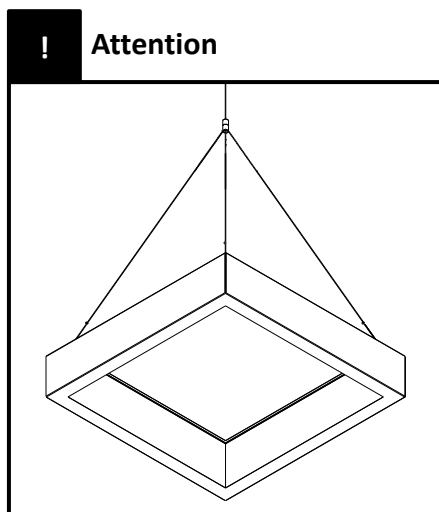
NOTE: if the center cable cutting is required, follow the cable cutting steps in the ceiling mount installation instructions.

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

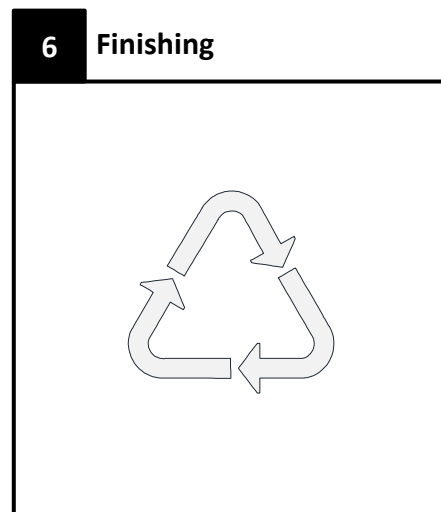
Suspending fixture from aircraft cables.



ATTENTION: If there is no top tile being used, fold both fixture tabs down so they are not visible from underneath.



Make sure the tile is sitting flush with the fixture when seen from below.



Recycle all packaging materials and unused contents.

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

INSTALLATION

WARNINGS AND INSTRUCTIONS FOR LUMINAIRES

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

FOR YOUR PROTECTION, YOU MUST CAREFULLY READ ALL WARNINGS AND INSTRUCTIONS IN THEIR ENTIRETY PRIOR TO INSTALLATION, OPERATION, SERVICE OR MAINTENANCE. FAILURE TO DO SO CAN RESULT IN DEATH, PERSONAL INJURY AND PROPERTY DAMAGE. If you do not understand these warnings and instructions, or if additional information is desired, please contact the Customer Care Call Center at 800-555-0050.

• **Installation, service and maintenance of luminaires must be performed by a qualified professional and in accordance with all federal, state and local laws, regulations and electrical codes. This professional should be familiar with the construction and operation of this product and any hazards involved. If not qualified, do not attempt installation, service or maintenance.**

• **To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts, abrasions and other hazards, please read all warnings and instructions included with the luminaire, on the luminaire's packaging and affixed to the luminaire itself.**

• **Maintenance of the luminaires should be performed by person(s) familiar with the luminaire's construction and operation and any hazards involved.**



WARNING

RISK OF FIRE, ELECTRIC SHOCK OR PERSONAL INJURY

- Disconnect or turn off power before attempting any installation, service or maintenance.
- Verify that supply voltage is correct by referencing the luminaire label information.
- Make all electrical and ground connections in accordance with the National Electrical Code (NEC) and any other applicable laws, regulations or codes.
- All wiring connections should be capped with UL-approved wire connectors.



WARNING

RISK OF PERSONAL INJURY

- Wear gloves and safety glasses at all times when removing luminaire from carton, installing, servicing or performing maintenance.
- Avoid direct eye exposure to the light source while it is on.



WARNING

RISK OF FIRE, ELECTRIC SHOCK OR PERSONAL INJURY

- Allow LED/lamp & lens to cool before handling.
- Do not touch enclosure or light source.
- Do not exceed maximum wattage marked on luminaire label.
- Follow all manufacturer's warnings, recommendations, instructions and restrictions for driver type, burning position, mounting locations and replacement.



WARNING

RISK OF FIRE OR PERSONAL INJURY

- Keep combustible materials away from LED/lamp & lens.
- Do not operate in close proximity to persons, combustible materials or substances affected by heat or drying.



CAUTION

RISK OF PRODUCT DAMAGE

- Never connect luminaires and/or components under load with supply voltage turned on.
- Do not mount or support these luminaires in a manner that can cut the outer jacket or damage wire insulation.
- Do not restrict fixture ventilation. Allow for some volume of airspace around luminaire. Avoid covering luminaire with insulation, foam or other material that will prevent convection or conduction cooling.
- Do not exceed luminaire maximum ambient temperature.
- Do not modify the luminaire.
- Only use luminaire in its intended application and location.
- LED products are polarity sensitive. Ensure proper polarity before installation.
- Electrostatic Discharge (ESD) can damage LED. Personal grounding equipment must be worn during all installation and servicing of the luminaire.
- Do not touch individual electrical components as this can cause ESD, shorten LED life, or impact LED performance.
- Some components inside the luminaire may not be serviceable. In the unlikely event your luminaire may require service, stop using it immediately and contact the Customer Care Call Center at 800-555-0050.
- Always read the luminaire's complete installation instructions prior to installation for any additional luminaire specific warnings.
- In the case of HID or Fluorescent luminaires, regular re-lamping is required to keep luminaire operating within safe limits
- **Do not install damaged product.** Handling and installing damaged products can potentially increase the risks mentioned. In case of damage and/or missing parts upon arrival of the luminaire, please contact the Customer Care Call Center at 800-555-0050.
- These instructions do not purport to cover all details or variations in equipment nor to provide every possible contingency to meet in connection with installation, operation or maintenance. Should further information be desired, or should particular problems arise which are not covered sufficiently for the purchaser's or owner's purposes, this matter should be referred to the Customer Care Call Center at 800-555-0050. Please see luminaire specific Installation and Maintenance Instruction for additional warnings or any applicable FCC or regulatory statements. Failure to follow any of these instructions could void luminaire warranties.

Luminaire Maintenance

- Regular luminaire maintenance programs are recommended.
- It is recommended to clean the outside of the luminaire and the refractor/lens.
- Frequency of cleaning will depend on ambient dirt level and minimum light output which is acceptable to user.
- If clean water is not sufficient for cleaning, use a neutral, synthetic, non-scratching and non-abrasive cleaning substance.
- Never use alkaline and/or acetous cleaning substances.
- Make sure that the cleaning substance is carefully removed by rinsing with lots of clean water.
- Signify recommends using a cleaning solution that has a PH between 5 and 8.
- Recycle: For information on how to recycle electronic products and components, please visit www.epa.gov.

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