Armstrong Integrated Lighting for SoundScapes® Shapes

Assembly and Installation Instructions

This installation guide is a supplement to the standard SoundScapes Shapes® installation instructions.

Please read the entire document prior to beginning work to avoid any re-work.

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1. SOLUTION OVERVIEW

SoundScapes Shapes Lighting Panels are engineered for seamless integration, replacing a standard SoundScapes Shapes panel to create a clean, cohesive lighting solution, without the need to modify the ceiling suspension system or adjacent panels. Installation mirrors that of standard SoundScapes Shapes panels and offers three flexible options: panels can be individually suspended using aircraft cables, installed within a grouping frame, or mounted in a grid suspension system.

IMPORTANT NOTE: Installation requires collaboration between the ceiling contractor and the electrical contractor.

- The ceiling contractor mounts the lighting panel using the same suspension method as the SoundScapes Shapes panels (Direct to deck, grid suspension system, or grouping frame).
- The electrical contractor installs junction box and completes wiring and power connections once the panel is hung.

1.1 Shipping and Handling

SoundScapes Shapes Light Panels are shipped individually in boxes or, for larger orders, palletized on 4' × 4' or 4' × 8' pallets. The customer is responsible for receiving and unloading all materials. For palletized shipments, the use of a pallet jack or forklift is strongly recommended.

All fixtures must be stored indoors in a clean, dry, climate-controlled environment prior to installation and remain boxed until they are ready to be installed to ensure maximum protection. While the fixtures are made from durable polycarbonate, they must still be handled with care. Each fixture component should be lifted and carried by at least two people, and fixture components must not be placed on unpadded surfaces to prevent damage.

IMPORTANT NOTE: Hanging hardware is shipped with all lighting panels. Be sure to confirm and specify the intended installation method at the time of ordering to ensure the correct hardware is provided. During installation, keep all hanging hardware organized and protected from accidental disposal.

Do not interchange hanging hardware between Lighting Panels and SoundScapes Panels. Lighting panel hardware is specifically engineered to support the weight and load requirements of the light fixtures, while SoundScapes hardware is designed for a different application. Using the incorrect hardware may result in an unsafe installation and product damage.

1.2 Safety Recommendations

A minimum of two to three (2–3) people are required for the safe and efficient installation of light panels – this includes at least two installers for handling and mounting the fixture and one qualified electrician responsible for making all electrical connections.

All personnel must wear appropriate PPE, including, safety glasses, gloves, and footwear. Ensure all necessary tools needed for proper wiring of fixture to supply circuits are used.

Use two (2) ladders, mobile scaffolding, or scissor lifts appropriate for the ceiling height and site conditions.

1.3 Cleaning Recommendations

For light fixtures, clean surfaces using a vacuum or soft brush. Do not use strong solvents, highly alkaline cleaners, or abrasive cleaning agents.

For infill panels, refer to the standard SoundScapes Shapes cleaning instructions for appropriate cleaning procedures.

2. DESIGN & INSTALLATION CONSIDERATION

2.1 SoundScapes Shapes Light Panel

Seamless Light Panel Integration: SoundScapes Shapes Lighting panels are engineered specifically for the SoundScapes Shapes system as direct one-to-one replacements for standard acoustic panels, and only designated lighting panels should be used—standard acoustic panels must not be field-modified for lighting integration. Designed to match the exact dimensions and visual orientation of acoustic Shapes panels, these lighting panels integrate seamlessly into the overall system layout and can be installed individually (with aircraft cables), within a grouping frame, or via a grid suspension system.

Alignment and Offset: When installed in a grouping frame or grid system, the face of the lighting panel will sit lower than the adjacent SoundScapes panels rather than flush. Refer to section 5 for panel offset dimension based on the installation method and bracket being used.

Light Panels with Infills: For configurations requiring infill panels, this option must be specified at the time of order. Panels are manufactured and supplied with all required provisions and accessories to accommodate the infill panes. All necessary installation components are included in the packaging, and infill panels are installed onsite. Refer to Section 4 for detailed installation instructions.

Grouping Frame & Grid installation: The installation method must be specified at the time of order, as it determines the panel configuration. Panels intended for grouping frame or grid installations are manufactured with pre-installed framing to accommodate the required attachment hooks.

2.2 Grid Suspension System

While the suspension system does not require modification and must be installed following the standard SoundScapes Shape installation instructions, Heavy-Duty Grid system is required in layouts using SoundScapes Shape Light panels.

2.3 Individual Suspension to Deck (via Aircraft Cable) Only Light Panels

Parallelogram, large rectangle, small rectangle, and large trapezoid light panels are designed for individual suspension (with aircraft cables) installation only. These panels should not be specified for group frame or grid suspension system installation.

2.4 Group Frame

The group frame system does not require modification and must be installed following the Standard SoundScapes Installation instructions document.

3. GENERAL INSTALLATION & ASSEMBLY

Refer to the project RCP (Reflective Ceiling Plan) for the exact location and layout of the light panels. The ceiling contractor shall refer to the installation method specific to the project and follow all instructions provided.

- Individual Suspension to Deck (via Aircraft Cable) Installation — Section 3.2.1
- Grouping Frame Installation — Section 3.2.2
- Grid Suspension System Installation — Section 3.2.3

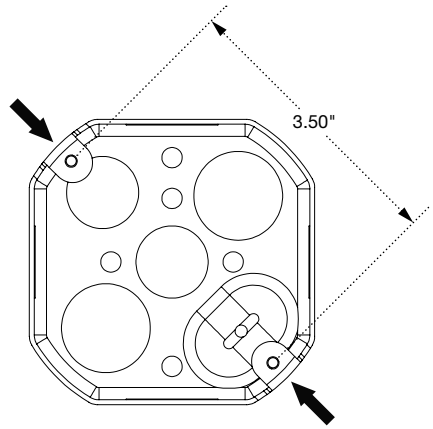
The ceiling contractor and electrical contractor must communicate clearly throughout the installation process.

3.1 Electrical Contractor Scope – Preparing the Plenum & Installing Junction Boxes

To be completed by a qualified electrician.

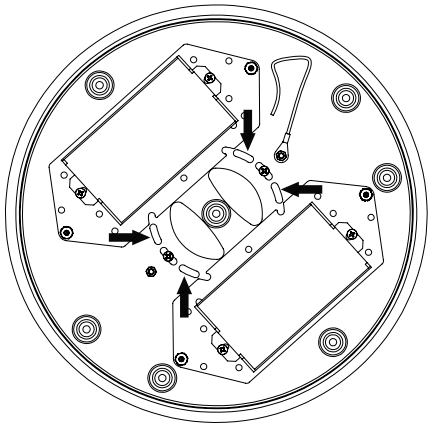
3.1.1 Installing Junction Boxes

Step 1 — Install junction box. Refer to project-specific drawings for exact locations. After installation, locate the mounting holes for the canopy ***(Fig 1)***



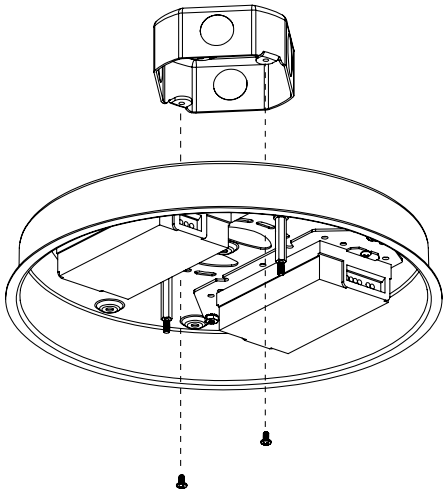
(Fig 1)

Step 2 — Locate the mounting slots to install the canopy to the junction box. Quantity of drivers are just for visual representation. Actual canopy may only have one driver based on project specification ***(Fig 2)***



(Fig 2)

Step 3 — Push the connections and all excess wires into junction box. Secure canopy to junction box using fasteners ***(Fig 3)***



(Fig 3)

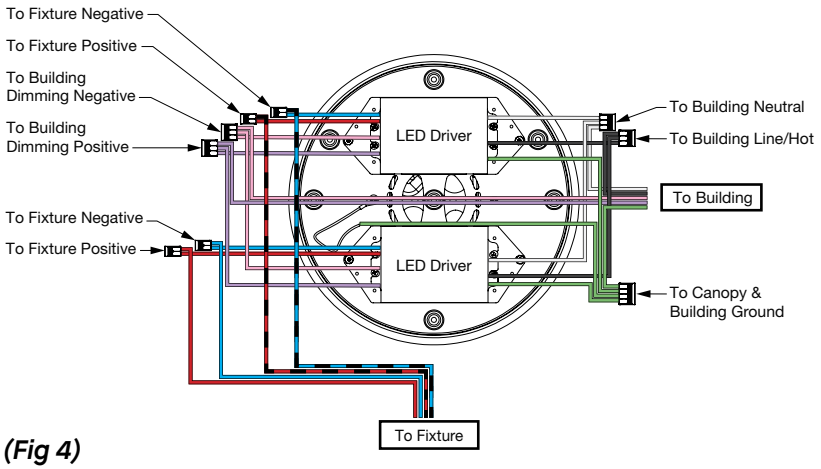
Step 4 — **WIRING:** For illustration purposes only. Consult control manufacturer's spec sheets for specific wiring requirements and fixture capacity.

IMPORTANT NOTE:

- Wire according to appropriate manufacturer's wiring diagrams.
- **WARNING:** Risk of shock from energized equipment.
- Always turn power OFF and lock out during fixture installation.
- 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.

WARNING: ARMSTRONG IS NOT LIABLE FOR DAMAGE DUE TO MISWIRING 0 -10 VOLT CONTROL WIRES, OR LOW VOLTAGE LED WIRES TO LINE VOLTAGE.

3.1.1.1 Wiring Diagram: 0 – 10V Dimming, 2 Drivers, For 9000lm - 14000lm *(Fig 4)*



(Fig 4)

Step 1 — Connect the WHITE (Input ACN) power supply wire to the WHITE (ACN) wire of the supply circuit. Connect the BLACK (Input ACL) power supply wire to the BLACK (ACL) wire of the supply circuit. Connect GREEN (GROUND) power supply wire to the GROUND wire of the supply circuit.

Step 2 — Connect the PURPLE (DIMMING +) power supply wire to the DIMMING + wire of the supply circuit. Connect the GRAY (DIMMING -) power supply wire to the DIMMING - wire of the supply circuit.

Step 3 — Push all line voltage connections and all excess wires into the junction box.

Step 4 — Secure canopy to junction box with fasteners.

Step 5 — Feed the multi-wire power cord from the fixture through the strain relief on dress plate.

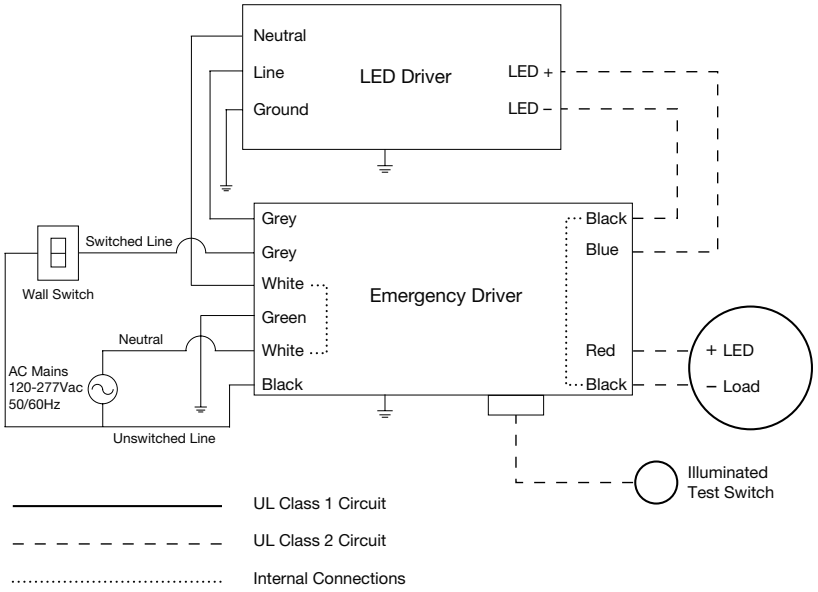
Step 6 — Tighten set screw on strain relief to secure power cord.

Step 7 — Connect the Blue (DC V-) wire from fixture to the BLUE (DC V-) of the driver 1. Connect the RED (DC V+) wire from the fixture to the RED (DC V+) wire of the driver 1.

Step 8 — Connect the STRIPE BLUE AND BLACK (DC V-) wire from fixture to the BLUE (DC Output V-) of the driver 2. Connect the STRIPE RED AND BLACK (DC V+) wire from the fixture to the RED (DC V+) wire of the driver 2.

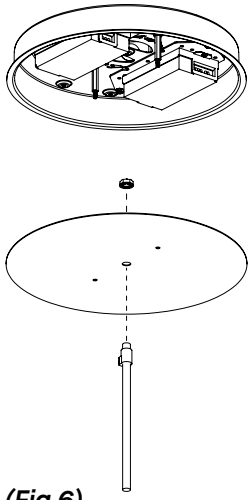
Step 9 — Re-attach the dress plate using provided decorative cap nut.

3.1.1.2 Wiring Diagram: EM Battery *(Fig 5)*

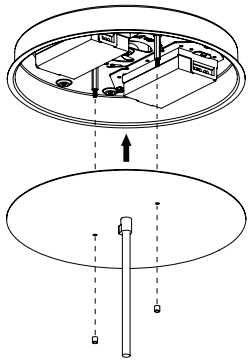


(Fig 5)

Step 5 — Connect the wiring to the dress plate using a lock washer and a nut. Lift the dress plate upward and align the decorative nuts with the standoffs protruding from the canopy ***(Figs 6 & 7)***

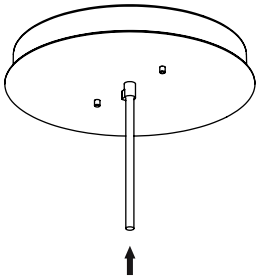


(Fig 6)



(Fig 7)

Step 6 — Make sure the decorative nuts are tightened properly ***(Fig 8)***



(Fig 8)

3.2 Ceiling Contractor Scope – Installation Methods

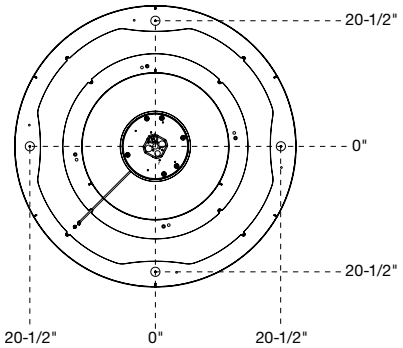
Installation shall be performed by the ceiling contractor after all plenum work has been completed. The ceiling contractor is responsible for installing the SoundScapes® Shapes panels and SoundScapes® Shapes Light Panel.

In addition to following this installation document, refer to the standard SoundScapes® Shapes Installation Instructions for additional details. Follow the specific installation method indicated in the project RCP.

3.2.1 Individual Suspension to Deck (via Aircraft Cable) Installation

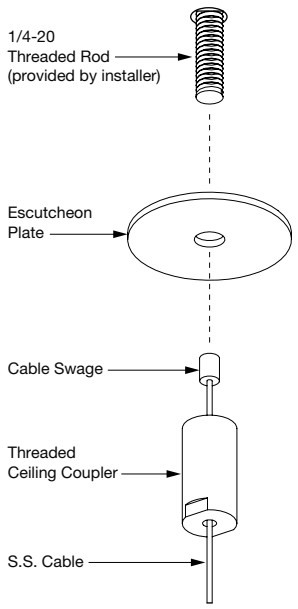
Please note that SoundScapes Shapes Lighting Panels utilize different suspension hardware than SoundScapes Shapes acoustic panels. Each lighting panel is supplied with dedicated individual suspension (aircraft cables) hardware specifically engineered for its design and weight. Ensure that each panel is installed using only the hardware provided for its intended application.

3.2.1.1 Pick Point Installation *(Fig 9)*



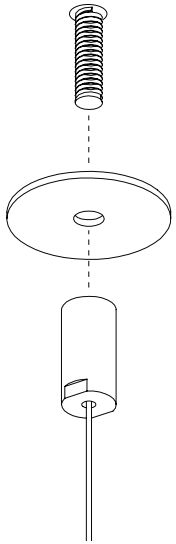
(Fig 9)

- Install 1/4-20 all thread, refer to project specific shop drawings provided by Armstrong Integrated Lighting for exact locations. **NOTE:** All-thread to be installed to support 60lb. minimum load.
- All-thread should be installed to extend 1/2" below the line of the inish ceiling ***(Fig 10)***



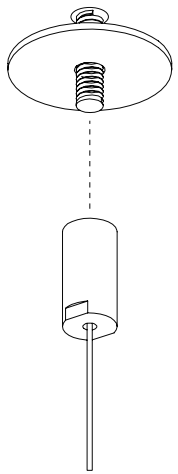
(Fig 10)

Step 1 — Thread the adapter onto the all thread until firmly secured against ceiling as shown ***(Fig 11)***



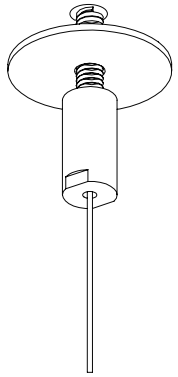
(Fig 11)

Step 2 — Slide escutcheon plate over thread adapter & against the finished ceiling ***(Fig 12)***



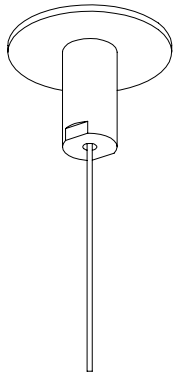
(Fig 12)

Step 3 — Thread ceiling coupler onto thread adapter as shown ***(Fig 13)***



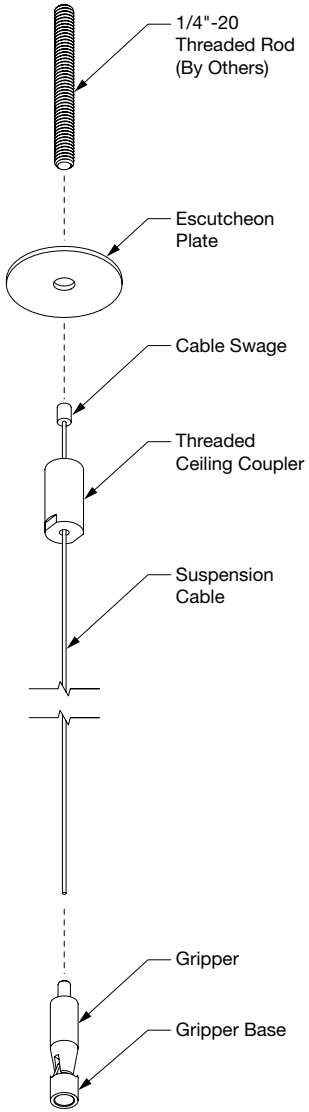
(Fig 13)

Step 4 — Thread ceiling coupler onto thread adapter as shown ***(Fig 14)***

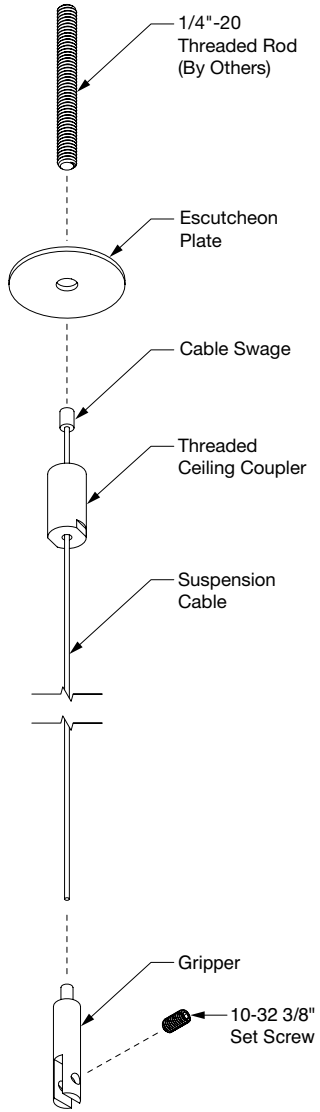


(Fig 14)

Step 5 — Light Panel Hanging Hardware Installation
Light panels are provided with dedicated hanging hardware that differs from standard acoustical shape panel hanging hardware. There are two types of hanging hardware depending on the specific light panel configuration. Review the hardware received and follow the corresponding installation method below ***(Figs 15 & 16)***

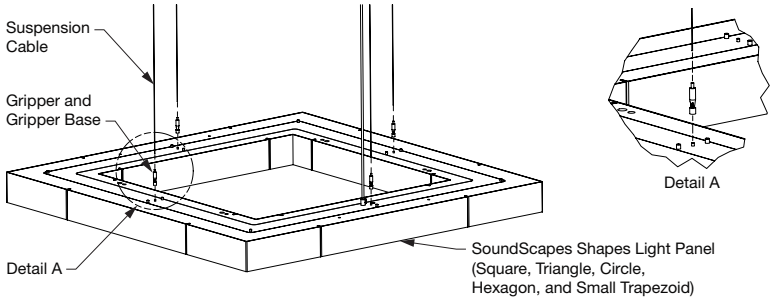


Cable Gripper System
(Fig 15)



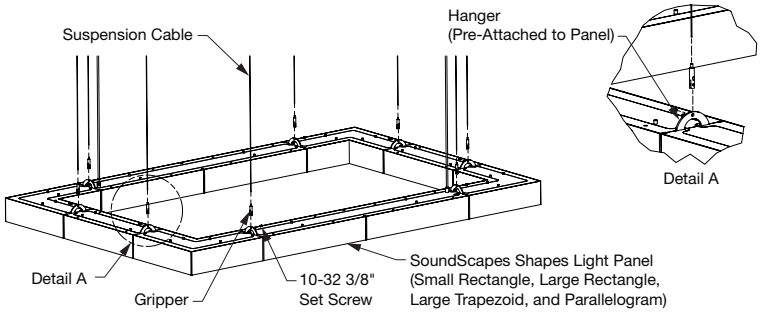
Fork Gripper System
(Fig 16)

Option A — Cable Gripper System:
Insert the cable grippers onto the protruding threaded studs located at the designated attachment points on the back of the light panel. Secure each gripper by threading its internal fitting onto the stud. Configure the cable grippers as shown. The height of the light panel can be adjusted using the cable adjuster located at the bottom end. Once the desired height is achieved and installation is complete, trim any excess cable from the side of the adjuster to the desired length, leaving no less than a 1" tail ***(Fig 17)***



(Fig 17)

Option B — Fork Gripper System:
Attach the fork gripper through the hole in the embedded hanging clip within the light panel. Once positioned, fasten the fork gripper securely in the provided set screw. Thread the aircraft cable through the fork gripper, ensuring the cable extends at least 1" beyond the gripper. Raise and level the light panel to the finished height, taking care to prevent the cable from scratching the panel surface. Once properly positioned, trim the aircraft cable to the desired length ***(Fig 18)***



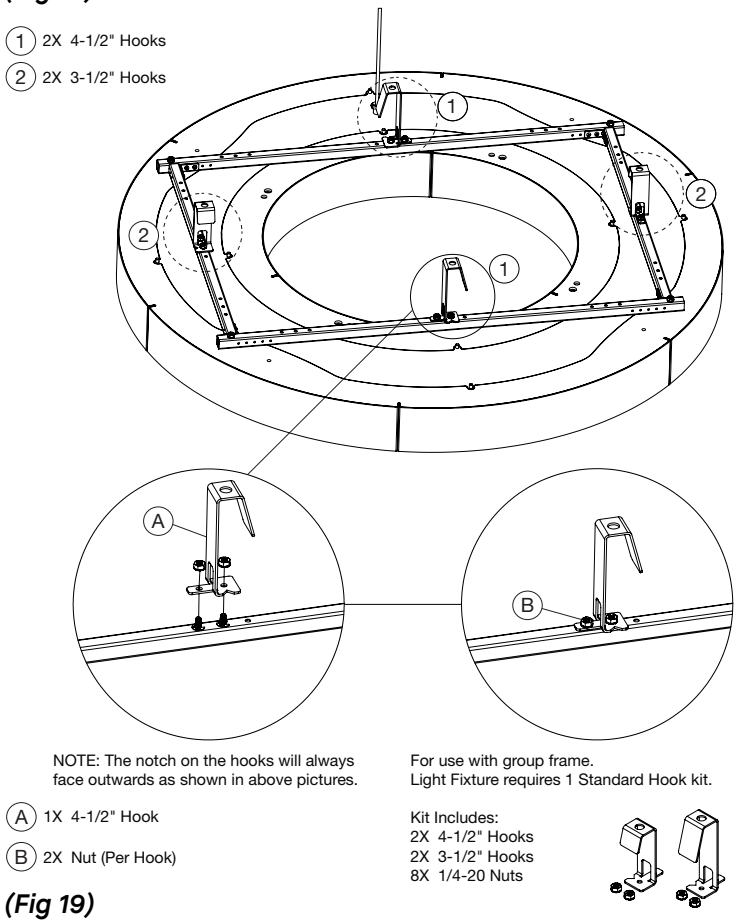
(Fig 18)

To lower or adjust the panel, remove any load from the fork gripper, press the release mechanism, and slide the cable as needed. **TIP:** Excess wire can also be wound up in a tight circle and left on the back of the panel for future use.

IMPORTANT NOTE: To ensure proper access, the electrical contractor must complete all electrical connections for the lighting panel before the remaining SoundScapes Shapes panels are installed, refer to section 3.3.

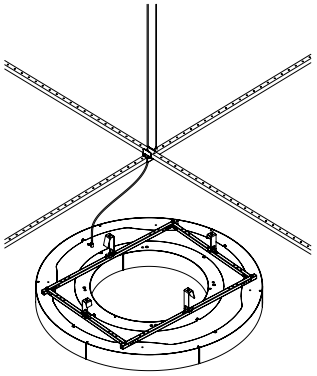
3.2.2 Grouping Frame Installation

For group framing installations, the light panels are supplied with factory-applied framing designed for hanging and the hanging hooks. It is essential that the installation method be specified when placing the order to ensure the correct framing is applied during manufacturing and correct hanging hardware is included ***(Fig 19)***

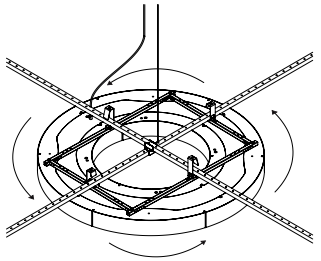


(Fig 19)

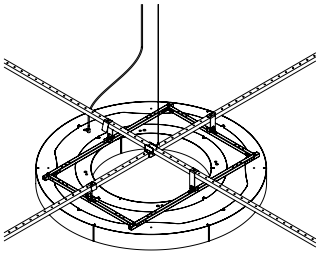
Install the Light onto the Grouping Frame by rotating the fixture over frame members as in below images ***(Figs 20 – 23)***



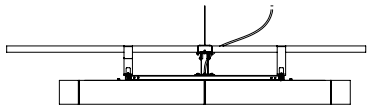
(Fig 20)



(Fig 21)



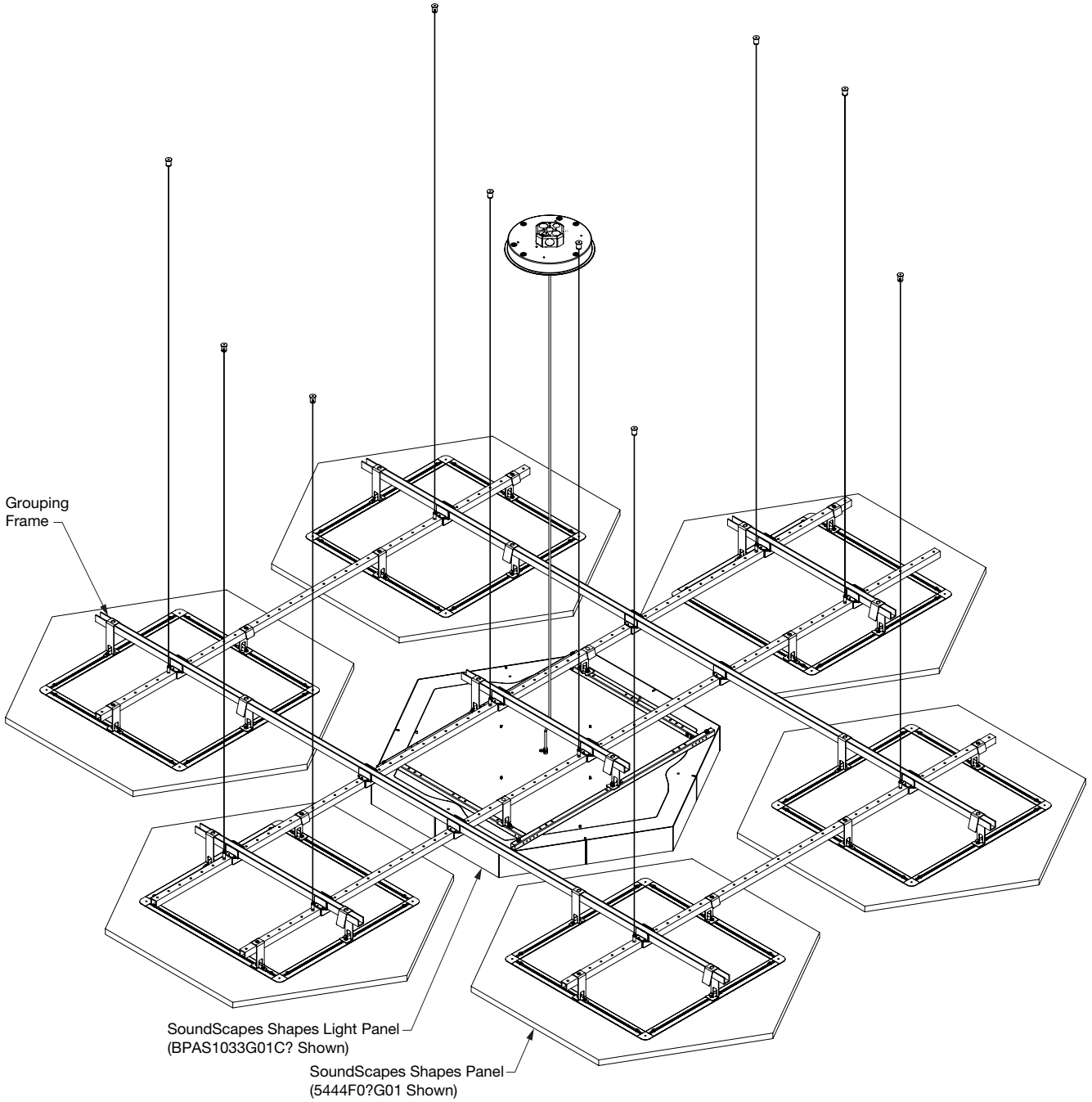
(Fig 22)



(Fig 23)

IMPORTANT NOTE: To ensure proper access, the electrical contractor must complete all electrical connections for the lighting panel before the remaining SoundScapes Shapes panels are installed, refer to section 3.3.

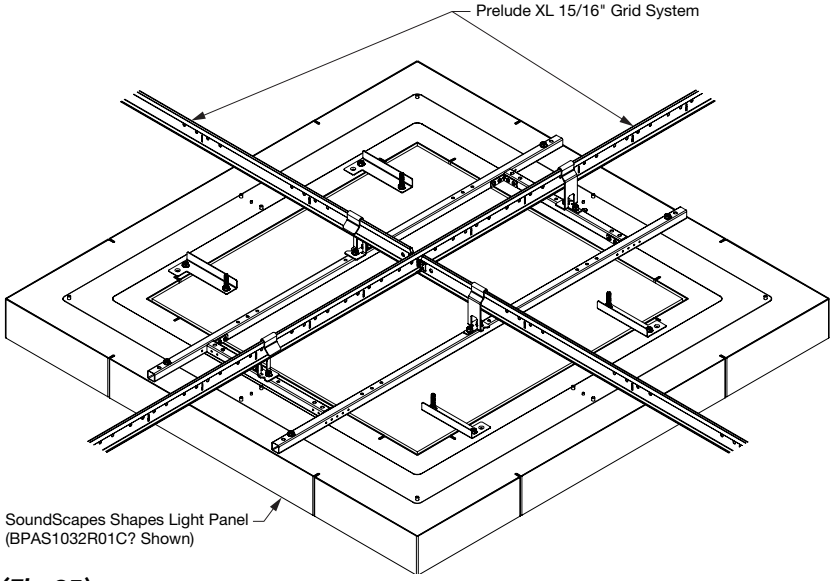
FULL INSTALLATION DETAIL WITH GROUPING FRAME



(Fig 24)

3.2.3 Grid Suspension System Installation

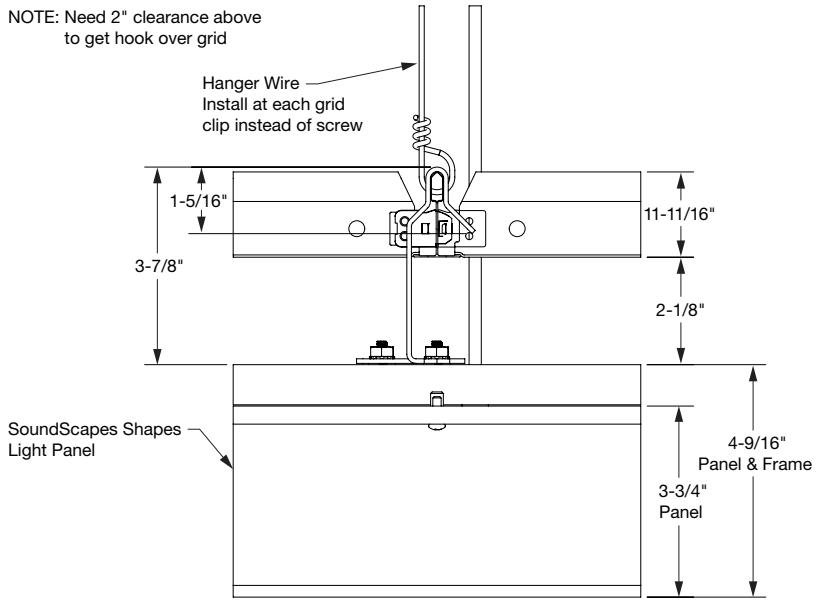
The installation of hooks on the back of the light panels follows the same process used for attaching group-framing hooks. However, for grid suspension systems, all hooks will be the same height and are shipped with panels. Grid hooks must install at a main beam and cross tee intersection; two hooks must always engage the main beam ***(Fig 25)***



(Fig 25)

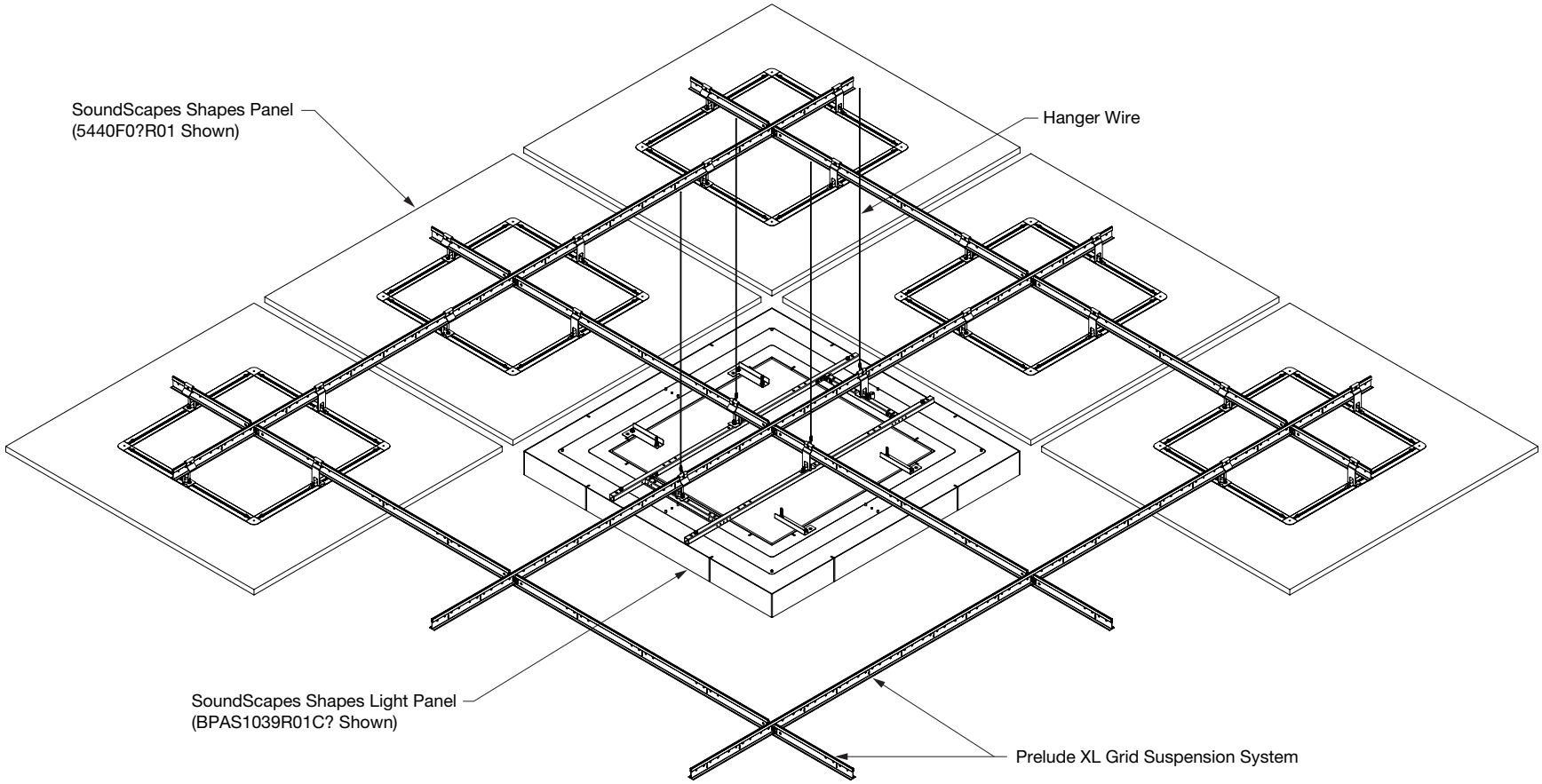
IMPORTANT NOTE: To ensure proper access, the electrical contractor must complete all electrical connections for the lighting panel before the remaining SoundScapes Shapes panels are installed, refer to section 3.3.

Attach a safety wire to deck, through the pilot hole located at the top of the clip, as required by local building or seismic code ***(Fig 26)***



(Fig 26)

FULL INSTALLATION DETAIL WITH GROUPING FRAME



(Fig 27)

3.3 Electrical Contractor Scope – Plug in Connection

All electrical connections must be performed by a qualified electrician. Ensure the lighting panel is properly plugged in and all wiring is finalized.

3.3 Ceiling Contractor Scope – Finish Ceiling Installation

Once all lighting panels are securely installed and the electrical contractor has confirmed that all wiring is complete, proceed with installing the remaining SoundScapes Shapes panels to finish the ceiling.

4. LIGHT INFILL PANEL INSTALLATION

Light panels specified with infill panels require field installation of the infill components. The following steps outline the proper procedure for installing infill panels on-site.

4.1 Assemble Infill Panel

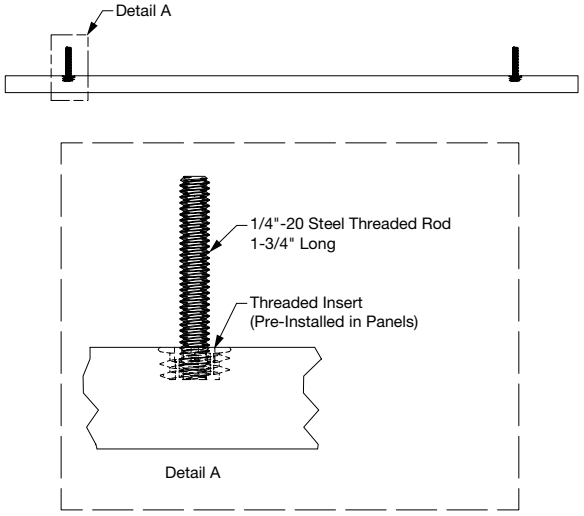
Using the provided 1/4"- 20 threaded rods insert them into the embedded threaded inserts ***(Figs 28 – 30)***

Step 1

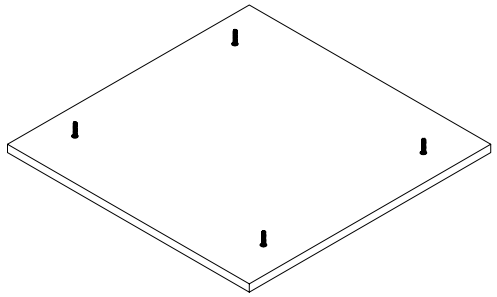


(Fig 28)

Step 2



(Fig 29)



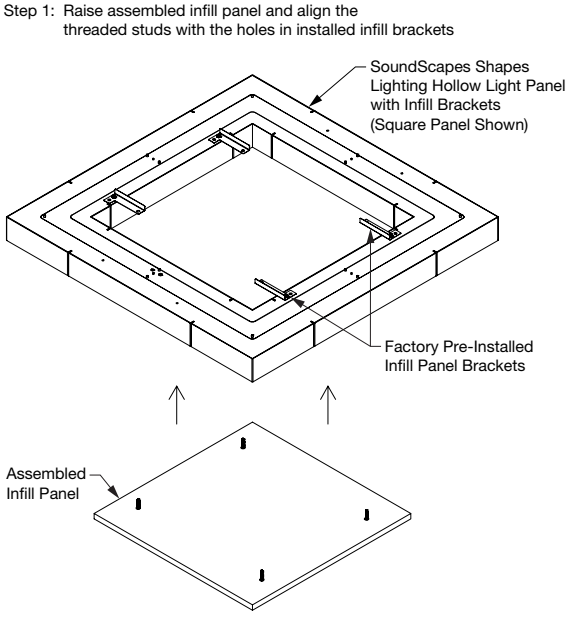
Assembled Infill Panel Iso View

(Fig 30)

4.2 Install Infill Panel into Light Panel

Install the assembled infill panel into the SoundScapes Shapes Light Panel following the steps below:

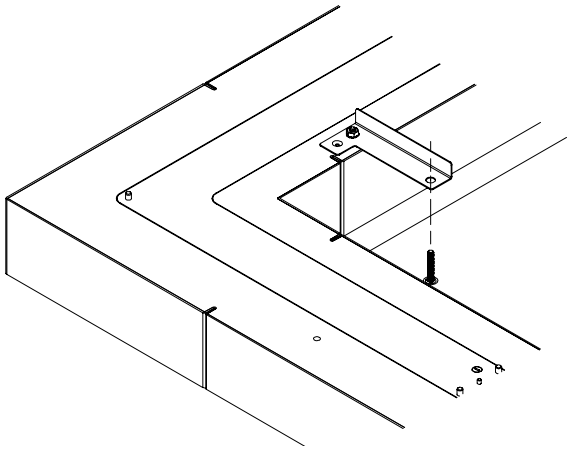
- Raise the assembled infill panel and align the threaded studs with the holes in the factory pre-installed infill panel brackets on the light panel ***(Fig 31)***



(Fig 31)

- Carefully guide the threaded studs through each bracket until the infill panel sits flush against the rear face of the light panel ***(Fig 32)***

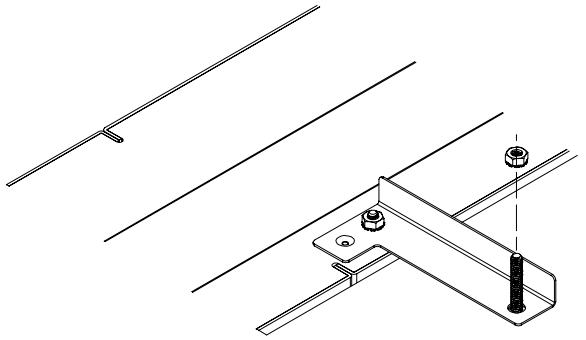
Step 2: Guide the threaded studs of the infill panel through each bracket until the infill panel flushes out with the rear face of the light panel



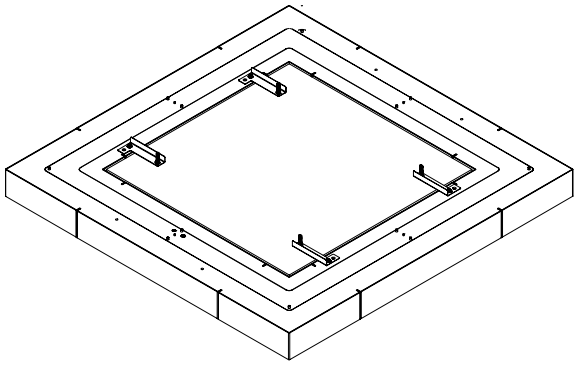
(Fig 32)

- Secure the infill panel in place using the provided 1/4"-20 nuts. Install one nut at each stud and bracket connection point ***(Figs 33 & 34)***

Step 3: Using the 1/4"-20 nut hardware included with the light panel, install the infill panels into place by threading one nut per each stud and bracket intersection



(Fig 33)



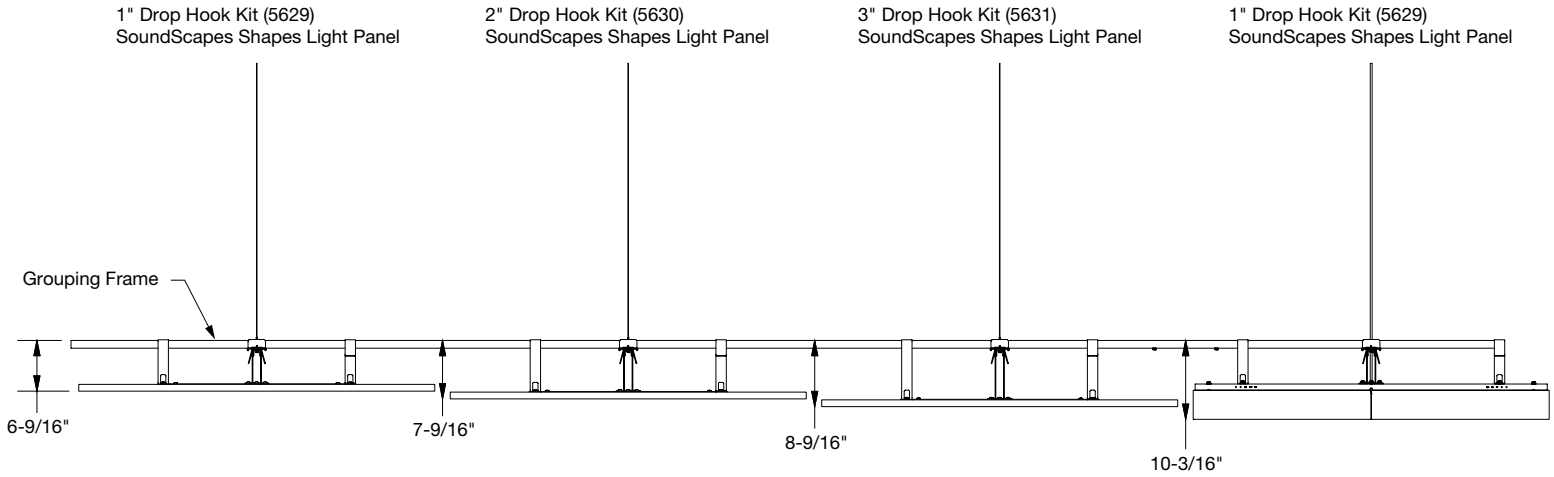
Fully Assembled Hollow Light Panel

(Fig 34)

5. LIGHT & ACOUSTICAL PANEL ALIGNMENT & OFFSET

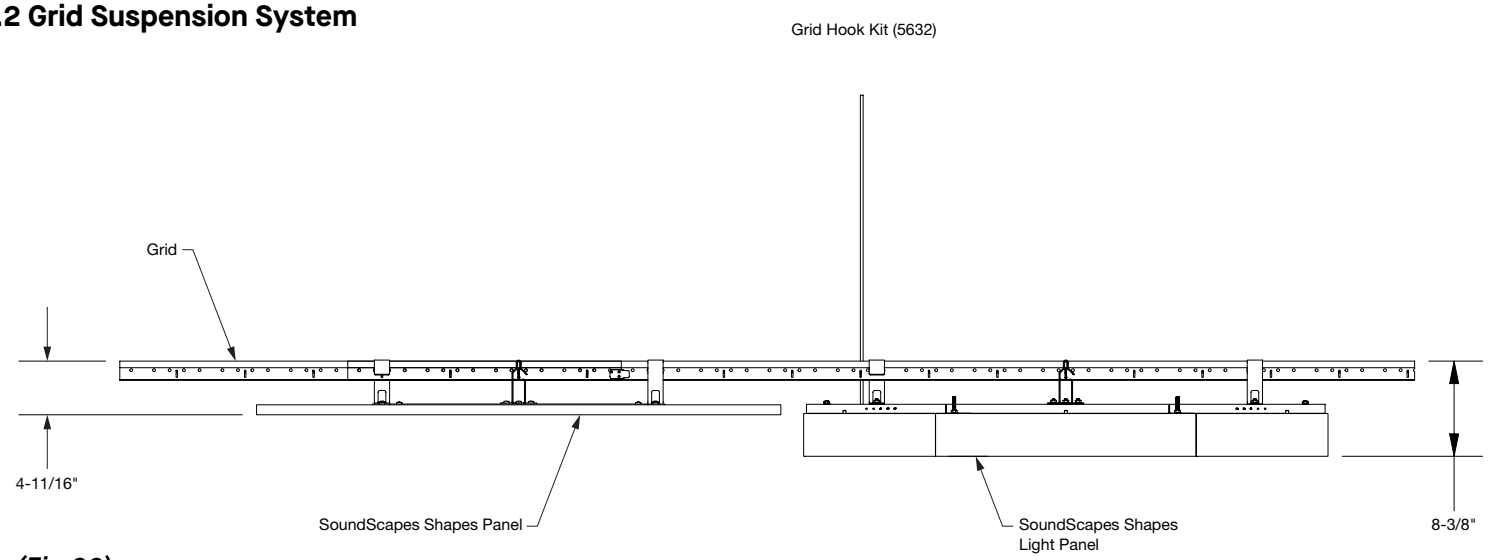
When installed within a grouping frame or grid system, the face of the lighting panel will sit slightly lower than the adjacent SoundScapes Shapes panels, rather than being flush. The offset of the light panel varies based on the installation method and the type of brackets used, as outlined below.

5.1 Grouping Frame



(Fig 35)

5.2 Grid Suspension System



(Fig 36)

6. SEISMIC

The following are modifications to installations that are Seismic Category C, D, E, or F. Please refer to our Seismic Design: What You Need to Know brochure for more details on seismic installations.

6.1 Installing Aircraft Cables

This system has been tested and approved for installation in all IBC Seismic Design Categories. ASCE 7 provides an exception to the restraint requirement for architectural components stated in Section 13.5.1 provided that:

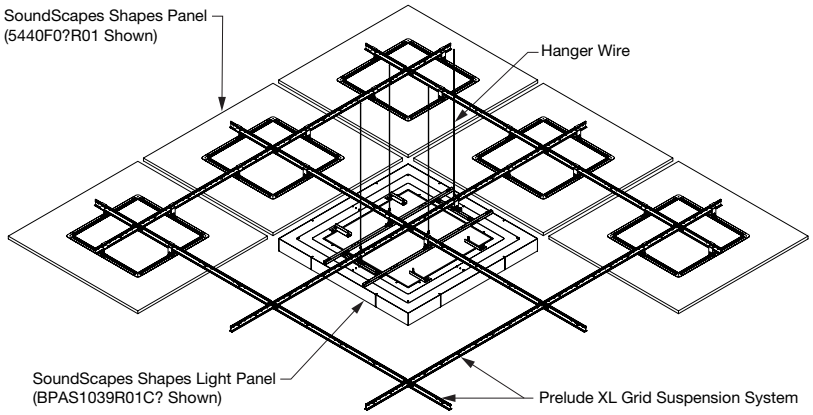
- The connection to the structure must allow a 360° range of motion in the horizontal plane.
- The component may not cause damage to an essential building element.

The International Building Code allows architectural components to swing freely as long as they will not be damaged or cause damage. Cable lengths less than 20" will generate the greatest amount of pendulum reaction during a seismic event and should, therefore, be avoided.

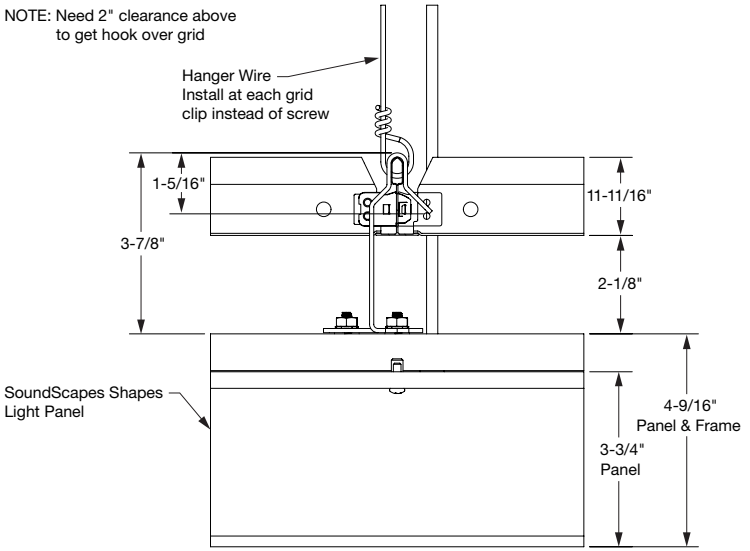
When it is not practical to use cables greater than 20" long, allow lateral clearance around the architectural component equal to, or greater than, the length of the cable. Architectural components suspended from cables greater than 20" long will swing no more than 8". Restraint of architectural elements has proven to be ineffective and is not recommended.

6.2 Panel Installation: Grid Attachment

In addition to the installation steps outlined in Section 3.2.3, when using the grid hook clip, A taut wire is required to be installed through the clip and grid to the deck at every clip location where the panel weight is supported by the structure ***(Fig 37 & 38)***



(Fig 37)



(Fig 38)

MORE INFORMATION

For more information, or for an Armstrong representative, call 1 877 276-7876.
For complete technical information, detail drawings, CAD design assistance, installation information, and many other technical services, call TechLine customer support at 1 877 276-7876 or FAX 1 800 572-TECH.

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