For every environment of your life.

ACOUSTILIGHT FIBER OPTIC CEILING TILES (SURFACE MOUNTED)

Product Overview

Read all instructions for installing Surface Mount Panels before starting.

ASI AcoustiLight Panels are an out of the box, plug and play acoustic panel, with the fiberoptic star ceiling experience built right in. Out of the box, they are ready to be installed into any finished surface.
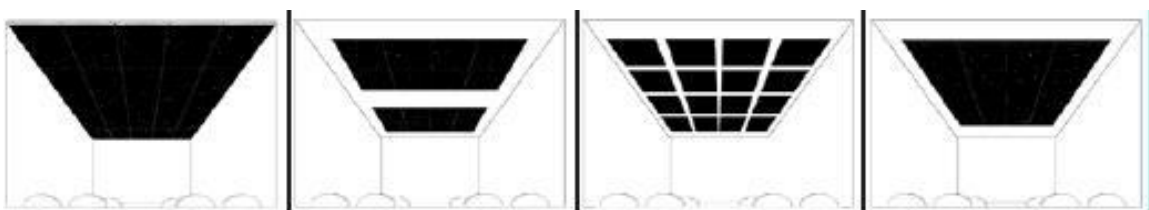
The ASI Panel System is designed for easy installation. Each ASI star panel has it's own low voltage Star Engine built right in and only required a 12vDC power connection. Up to 50 ASI star panels may be daisy chained together which makes wiring and installation a snap.

Each AcoustiLight system starts with a Driver (power supply) that is connected to a switched, or controlled line voltage circuit. From the Driver, a Leader Cable carries the low voltage power to the ASI Panel System. Then Jumper Cables daisy chain the power from one panel to the next. For installations with more than 133 star panels, just keep adding additional Drivers and Leader Cables to the same switched circuit.
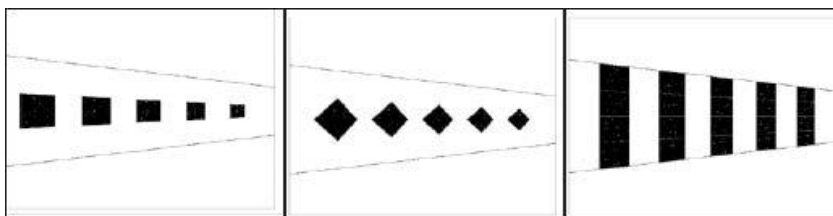
Design Overview

Plan your installation based on your design. These instructions are for general guidelines, and your installation requirements may vary based on your design and job site conditions.

Ideas for configuring a star ceiling:

Ideas for configuring wall applications:

| Star Windows | Diamonds | Banners |

WARNING: disconnect power before beginning any electrical work, and do not exceed the capacity of the circuit.

Before You Start

Make sure all code requirements are fulfilled. If your home theater project is going to require an electrical permit, you will be subject to the local electrical code requirements. Though it's not always easy to tell if your project requires a permit, it is best to consult with your local permitting authority.

Electrical codes generally follow the National Electric Code (NEC), which is published by the National Fire Protection Association. The main purpose of the NEC is to prevent hazards to human health and safety from electrical shock, tendency to start of perpetuate a fire, and production of toxic fumes when exposed to fire.

ASI panels are made with "Class A" fiberglass and covered in a "Class A" material. Wiring harnesses are made from CL2 and CL3 or higher. If installing in a plenum, installer must supply CL2P, CL3P or CMP, and as always, confirm and conform to local codes before installing.

Packing List

Each AcoustiLight Panel ships with the following:

Panel Size	Number of Panels per Master Pack	Mounting Points Per Panel	Mounting Anchors, Drywall EZ, Anchors, Screw (sets / master)	Jumper Cables Per Master	Powder Free Latex Gloves	Instructions
24" x 24"	6	4	24	6	2	1
30" x 30"	6	4	24	6	2	1
48" x 48"	2	6	12	2	2	1

First time installers must purchase an Installation Kit

Quick Installation Overview
- Put latex gloves on to keep panels clean when handling
- Orient first panel
- Install Leader Cable
- Mark mounting locations
- Attach Mounting Anchors
- Turn on power
- Inspect to see that the stars are on
- Reposition Panel
- Engage hex tool
- Apply steady pressure
- Turn hex count clockwise 1-2 turns
- DO NOT OVER TIGHTEN
- Panel installation complete
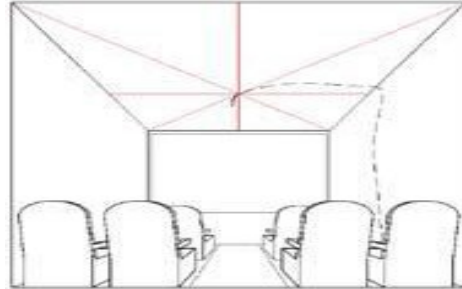- For additional panels repeat

Measure Twice, Install Once

Square up the room. Just because it looks square, doesn't mean that it is square. Measure twice, since all the panels are aligned off of the fist panel, it's alignment in the room is critical. Being a little out of square with the first panel could mean you are way out of square when you get to the end of the room, so take your time squaring up the first panel. Using masking tape, pencil marks, and chalk lines will also assist in keeping your installation square and true. Locate where your first panel will be installed.

Running The Power

Based on site conditions and project design, generally you will have three options for power. The recommended way is using a Remote Driver and pre-installing an ASI Leader Cable, or pre-wire an 18 AWG wire. Another option is to order the optional "Cloud Mount" anchors, and hang the panels from the ceiling by chain (note that this will require at least 4 or more inches of total height and may not be an option for low ceilings). This allows the installer to plug the Driver to a ceiling outlet and locate the Driver on top of the panel. The third and alternate way is the Embedded Drive (see below). As always, check and observe local building codes.

Remote Driver—Recommended Method

The plug-in Driver is a "table top" type of power supply, with an I. E. C. connector for the input of the line voltage. The selected outlet for powering the Driver should be controlled from a remote switch, or control system. Locate the Driver in a proper equipment area that is accessible and within 30 feet of the first ASI star ceiling panel (generally in the center of the ceiling). At this point, connect the ASI Leader Cable and start daisy chaining the panels together, (not to exceed 50 panels) using the supplied Jumper Cables. Your leader cable should not be longer than 30 feet. Consult with ASI if a longer leader cable is required.

Embedded Driver

Only a licensed electrician should embed the Driver into an ASI panel. It may be necessary to install the Driver into the Surface Mount Panel where the switched line voltage is already located in the ceiling, and running new low voltage wire is not an option. This may be more common in older homes and retro fits. The Driver is a line voltage device and will require access to it (according to most electrical codes); therefore, a cut out in the panel will be required to access the Driver. Use the ASI Cut Out Kit to mark and cut the panel. Check and observe local building codes.

To Make A Cut-Out

If you have elected not to have the manufacturer make your cut-outs, you'll need the following tools:

- Tape Measure
- Utility Knife
- Scissors
- Straight edge or square
- Gloves
- Cardboard or something rigid

To make a cut-out, you will need to take an accurate measurement. Measure from two separate sides, and then transfer that measurement to the backside of the star panel. We recommend making a template of the opening by using a piece of rigid material and trace it to the backside of the star panel.
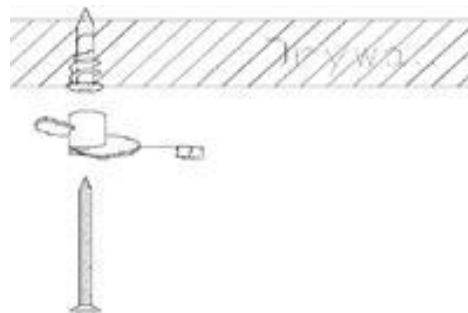
Once the measurements have been drawn or traced to the backside, it's time to make your cut. Make the cut using a utility knife. It's helpful to make a plus sign type cut in the center. It's easier to remove pieces then one large chunk. You will want to carefully work your way through the fiberglass to the fabric facing. If you encounter any fiber optics, they will have to be cut or moved if possible. It is typical to lose a few stars by making your own cut-outs.

Now that you are through the fiberglass, it's time to cut the fabric. For this, you will need a sharp pointed scissors. Make a "X" cut in the center of opening, then cut around the opening and toss away all the excess fabric. Your cut-out is now complete.

Mounting The First Panel

Place the first panel on the ceiling true and square in its proper orientation (this should be performed by at least two people, and no less than three when installing the larger 48" x 96" panels). Push the awl through the center of the round stickers to make an indent the ceiling. This is done from the finished fabric side of the panel. Once all mounting points are marked on the ceiling, remove the panel.

IMPORTANT: THE EZ ANCHORS ARE FOR DRYWALL INSTALLATION ONLY AND ARE NOT INTENDED FOR MOUNTING TO ANY OTHER MATERIAL OTHER THAN DRYWALL.

ONLY USE THE EZ MOUNT ANCHORS IN 5/8" DRYWALL WITH WOOD FRAMING.   ALL OTHER CONDITIONS WILL REQUIRE THE INSTALLER TO SOURCE AND PROVIDE AN ALTERNATE MEANS OF ATTACHING THE MOUNTING ANCHORS.

Screw the Drywall Anchor into dents you have made with the awl on the ceiling. Use the screw to anchor the yellow Mounting Anchor to the ceiling. Check and make sure the Mounting Anchor still rotates freely. Mount all anchors for the panel. Use a #2 phillips screw driver to push the hex cap into place until it snaps.

For Cloud Anchor Installation use the same process as above however install the "eye hook" in the ceiling, and screw the cloud anchor into the back of the panel, hang with desired chain length.
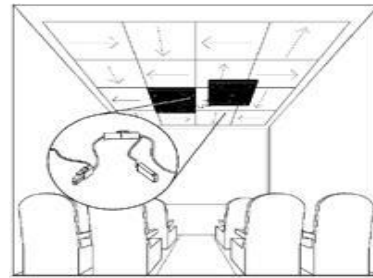
Connect the Leader Cable to the first panel and turn on the Driver.
Inspect to see that there is power to the panel by looking to see if the stars are illuminated, if not, check all connections and refer to the Trouble Shooting Guide. Carefully insert four Hex Drivers through the marked holes on the panels face (these are the same holes used to mark the mounting points with the awl). Insert all four Hex Tools and engage them into each of the Mounting Anchors. While applying gentle upward pressure on the panel, rotate one of the Hex Drivers counter clockwise until it has engaged into the panel. Rotate about one to two full turns, until you feel it pull up flush to the ceiling. DO NOT OVER TIGHTEN. You may find it best to engage each Mounting Anchor half way at first, then snug the panel to the ceiling.

Rotate the Panels

Each panel is marked with an arrow on the back. This arrow indicates the panel's orientation. Every panel gets rotated one quarter turn in order to provide a more random starry night experience. Remember to rotate panels 90 degrees for a random effect. Note: 48" x 96" panels can only be rotated 180 degrees.

Installing Additional Panels

Leave the plugs hanging off the side so you can connect the next panel. Connect a Jumper Jack to the first panel and run it to the location of the next panels Star Engine. Because of the flat design of the Jumper Cable plugs, you can "sandwich" the Jumper Cables between the ceiling and panel, or run them along the 2" light cove on the back of all Surface Mount Panels. You may find that using white gaffers tape, glue dots, or double sided tape is helpful in organizing the Jumper Cables during installation.

Up to 133 ASI Panels can be connected together in any configuration. If your installation requires more than 133 ASI Panels, then add an additional Driver and Leader Cable.

Adding Optional BluGlo Lighting

Add the BluGlo Lighting Advantage to your installation to create more depth and drama. Mount the BluGlo LED Lighting Strip on the sides of the panels light cove where you want the light to originate. Spanners are used to provide a bridge between panels for the BluGlo Lighting. Spanners are installed after the panels have been mounted. Each spanner comes with two adhesive pieces at each end. Remove the protective plastic, and adhere it to the one inch high white vertical surface on the panels light cove.

HELPFUL HINT: If after installing the iGlo Lighting you notice some undesirable "light leak" at the panels' seams, cut a 10" spanner in half, remove the plastic protective tape, and lay the 5" piece on top of the seam to block out the "light leak".

Installing BluGlo Lighting

Up to 48 feet of BluGlo can be powered from one end, and a total of 50 feet can be connected end to end if power is supplied from both ends. Each 4 Amp Driver will power up to 48 feet of BluGlo. It is suggested to use a separate Driver for the BluGlo so it can be controlled independently from the start. Follow the same procedures as above for "Running The Power." Note: You may want to locate (or run) the Leader Cable for the BluGlo to the outside of the panels edge.

Connect the BluGlo Strip to the panel via the supplied double sided tape.   Locate the BluGlo at the bottom (see diagram below) for the best light diffusion and to minimize the *viewing angle. An end to end connector must be used to attach each of the BluGlo pieces together.

*Note that good lighting design says that you want to see the effects of the light, not the light itself. If dimming the BluGlo Lighting is desirable, a third party Pulse Width Modulation control would be required at this time. Call for additional information.

Now Turn on Switch And Gaze At Stars, Relax and Enjoy!