SELECTSOUND® FF-BLACK ACOUSTIC BOARD NEXT GENERATION

INSTALLATION GUIDE

The Owens Corning® SelectSound® FF-Black Acoustic Board Next Generation provides excellent acoustical performance for restaurants, bars, performing arts centers, sound studios, multiplex theaters, mechanical rooms, and a multitude of similar applications. SelectSound® FF-Black Acoustic Board Next Generation is intended for applications where the product is protected from direct weather exposure. The product should not be subjected to rain, snow, standing water, excessive moisture, or conditions that may result in prolonged wetting. Applications in covered outdoor environments may be acceptable provided the product is adequately protected from direct precipitation and other sources of moisture. The installer is responsible for verifying that environmental conditions are suitable for the intended application.

IMPORTANT INSTALLATION LIMITATION

SelectSound® FF-Black Acoustic Board Next Generation is intended for acoustical absorption and is not designed to support loads. Do not rely on the board as a structural component or as a substrate for mounting fixtures, equipment, or other materials.

MATERIAL STORAGE

Proper storage is critical to preserving the performance properties of the SelectSound® FF-Black Acoustic Board Next Generation. Store the product off the ground in a dry, clean location. Protect it from weather exposure, and keep it in its original packaging until it is ready for installation.

HANDLING AND CUTTING

Handle boards carefully to avoid edge damage, surface indentation, or contamination of the black mat surface. Use cutting tools suitable for fiberglass insulation. Follow applicable job site safety procedures, and wear appropriate personal protective equipment when cutting or handling fiberglass materials.

INSTALLATION PREPARATION

Prior to installation, the application should be assessed to determine the materials, tools, and methods necessary for completion. Application surfaces should be clean, dry, and prepared for the selected fasteners or attachment method. The installer is responsible for verifying that the substrate, fastener type, spacing, and attachment method are suitable for the project conditions, including board thickness, orientation, environmental exposure, and potential mechanical abuse.

SelectSound® FF-Black Acoustic Board Next Generation needs proper support as they are acoustical absorbers and not structural elements. Installation should be over stable, mostly continuous surfaces. Installation directly over studs is not recommended. In addition to supporting the material, considerations should be made for potential mechanical forces or damage to the material after installation.

ATTACHMENT METHODS

SelectSound® FF-Black Acoustic Board Next Generation is usually impaled by pins or fastened with screws. Construction adhesive may be used to assist placement or supplement mechanical fastening. Adhesive-only attachment should be limited to low-load, non-overhead applications where the substrate is clean, sound, dry, and long-term bond performance has been verified with the adhesive manufacturer. For ceiling or overhead applications, mechanical attachment should be used; adhesive-only attachment is not recommended.

ATTACHMENT METHOD SELECTION GUIDE

Substrate	Preferred Attachment	Notes
Drywall over studs/joists	Screws with plastic insulation washers	Fasten through drywall into the underlying framing.
Plywood	Screws with plastic insulation washers	Confirm substrate has sufficient strength to support the load, or fasten through into the underlying framing.
Metal deck	Welded or adhered impaling pins with speed washers	Avoid double-sided tape pins where strength is required.
Concrete	Masonry fasteners, impaling pins, or combination system	Adhesives may supplement mechanical fastening.
Low-load vertical concrete	Mechanical fastening preferred; adhesive-only, only after bond verification	Adhesive-only attachment is not recommended for overhead applications.

FRAMED WALLS AND CEILINGS

For installation on building assemblies consisting of stud or joist framing with drywall or plywood coverings, the SelectSound® FF-Black Acoustic Board Next Generation should be fastened using screws with plastic washers. For assemblies with drywall, fasteners shall be driven through the drywall and secured into the underlying studs or joists. For plywood substrates, fasteners may be driven directly into the plywood, provided the substrate has sufficient strength to support the load.

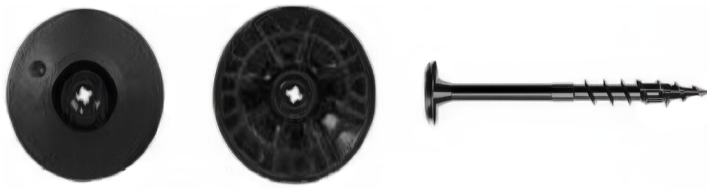
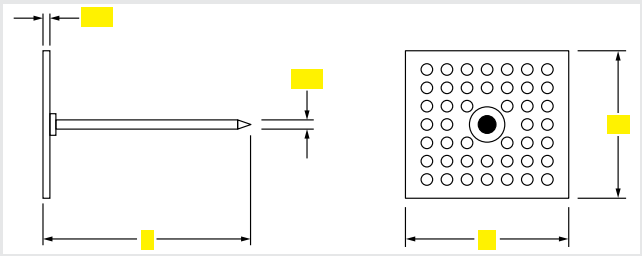


Figure 1. Plastic insulation washer and screw fastening example.

METAL DECKING

Installation of SelectSound® FF-Black Acoustic Board Next Generation on a metal structural deck is commonly achieved by welded or adhered perforated base, impaling pins with speed washers to hold the insulation in place. Impaling pins with double-sided tape are not recommended as they lack strength. Most impaling pin suppliers also offer adhesives. Impaling pins can be mechanically fastened, but this is a time-consuming process since the metal deck does not receive the self-tapping screws easily.

Perforated Base Impaling Pin



Welded Impaling Pin

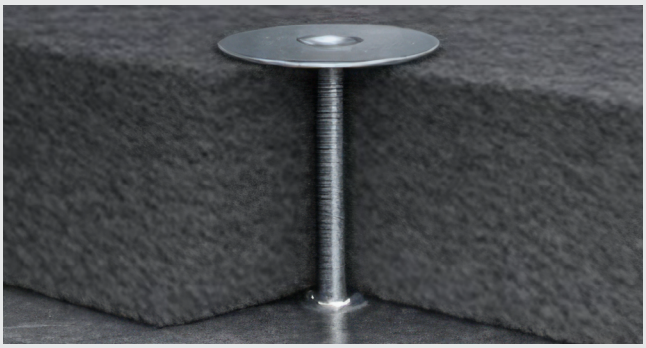
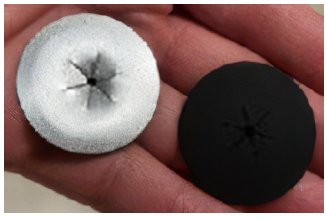


Figure 2. Impaling pin options for metal decking applications.

When installing impaling pins, follow the pin manufacturer's recommendations for surface preparation. Pin length shall be selected to ensure a snug fit when the washer is installed. The recommended washer diameter shall be at least 1.5 in. for ceilings or 1 in. for walls. Some suppliers offer washers with a flat black painted surface. Flat self-locking speed washers are commonly used; dome cap washers can provide personal protection against an exposed pin where needed for the application.

Flat Self-Locking Speed Washer



Dome Cap Self-Locking Washer



Figure 3. Speed washer and dome cap washer examples.

CONCRETE SURFACES

Fiberglass boards can be attached to a concrete substrate using adhesive, mechanical fasteners, impaling pins, or a combination system. For more secure attachment, especially on vertical walls, exposed areas, mechanical rooms, or thicker boards, use mechanical fasteners with large insulation washers or impaling pins. Mechanical fasteners may include concrete screws, hammer-set anchors, or other approved masonry anchors installed through washers large enough to distribute load without crushing the fiberglass. Furring strips can be installed on the concrete to make easier use of screws.

Impaling pins are typically bonded or mechanically attached to the concrete first; the board is pushed over the pins and secured with speed clips or locking washers. Fasteners should be snug but not overdriven to cause localized compression.

For adhesive attachment, the concrete should be clean, dry, and free of dust, oil, curing compounds, loose paint, or laitance. Apply a construction adhesive in vertical ribbons, beads, or a manufacturer-approved pattern, then press the board firmly against the wall and brace as needed until the adhesive cures. Adhesive-only attachment should be limited to low-load, non-overhead applications where the substrate is clean and sound and long-term bond performance has been verified with the adhesive manufacturer.

FASTENING REQUIREMENTS

Impaling pins or screws should be placed 3 in. to 8 in. from the edges of the board.

For full-size 48 in. x 96 in. boards, use a minimum of eight fastening points. Locate fasteners 3 in. to 8 in. from board edges. Smaller cut pieces may require adjusted fastening patterns based on size, orientation, and expected service conditions, as shown in the following diagram.

Selectsound® FF-Black Acoustic Board Next Generation: Fastening Pattern

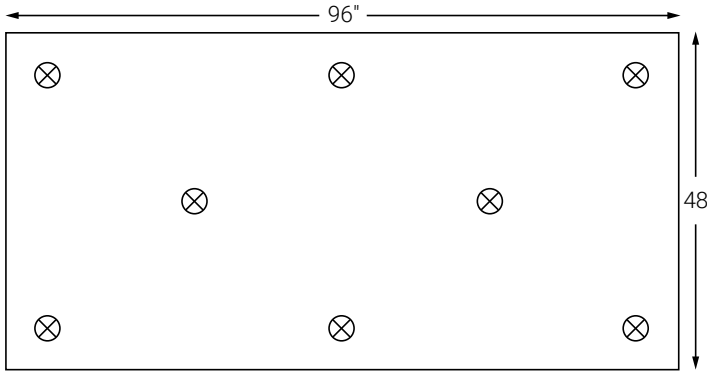


Figure 4. Minimum fastening pattern for a full-size 48 in. x 96 in. board.





INSTALLATION COMMENTS

- Install boards with edges tightly butted to minimize visible gaps.
- When multiple layers are used, offset board joints so seams do not align.
- Do not overdrive fasteners or washers, as this may indent or compress the board surface.
- If black washers are not available, exposed washers may be coated with compatible flat black paint after installation. Confirm paint compatibility with washer material, and allow adequate drying before the space is placed into service.
- Where aesthetics are important, exposed cut edges may be coated with black duct liner adhesive or mastic compatible with fiberglass insulation.
- Taping seams is not recommended.

PROJECT CONDITIONS DISCLAIMER

Project conditions vary. Final fastener selection, spacing, and attachment method should be confirmed by the installer, fastener supplier, adhesive manufacturer, or project design professional as applicable.

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