Auralex® acoustics | ProPanel™

ACOUSTIC WALL PANELS

## ProPanel™ Acoustic Wall Panels

The Auralex® ProPanels™ are high-quality, fabric-covered acoustical absorbers, designed to reduce unwanted room reflections, slapback and flutter echoes. ProPanels™ have a specialized fiberglass core and neatly hardened edges for a crisp look. From stock 2″x 2′x 2′ and 2″x 2′x 4′ panels for small room environments, to custom 2″x 4′x 8′ panels that enable full-frequency control in larger spaces, ProPanels™ provide top-shelf appearance and performance that is unmatched.

- Reduce unwanted acoustical reflections
- Tame chaotic reverberation
- Improve speech intelligibility
- Commercial and residential applications
- All components are 'Class A' fire rated per ASTM E-84

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ProPanel™ Acoustic Wall Panels

ProPanel Overview

4'x 8'   4'x 4'   2'x 4'   2'x 2'
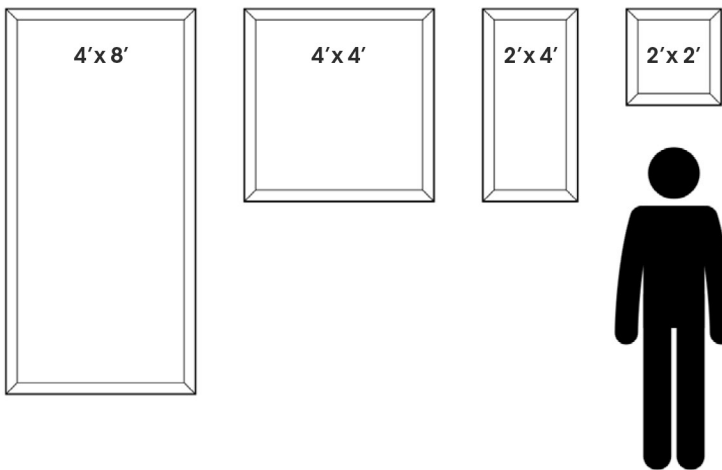
Standardized sizing makes it easy to mix and match in a variety of arrangements

Combine to treat any size space

Available in:
- 1" or 2" inch slim profile panels
- 3" or 4" inch thick custom panels
- Straight or beveled edges
- Flush-Mount corner panels or mitered edge

Fabric made from Class A Fire Rated Materials, available in a variety color options. ProPanels are a safe and attractive solution for an array of acoustic treatment needs.

Neutral and Contrasting Colors

Standard or SonoSuede™ materials available
Hand-Washasble
Made with Class Fire Rated Materials

Standard Fabrics

Obsidian	Sandstone	Petoskey
Quarry	Slate	Birch
Onyx	Wolf	Goose

SonoSuede™

Black Suede	Red Suede
Brown Suede	Tan Suede

Acoustical Testing Data (NRC)

Thickness	Octave Band Center Frequency						NRC
	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	
1"	0.10	0.32	0.83	1.05	1.09	1.02	0.80
2"	0.42	0.89	1.12	1.07	1.10	1.09	1.05
Custom - 4"	0.87	0.87	1.24	1.26	1.26	1.25	1.15

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ProPanel Mounting Hardware

Impaling Clips   X Ceiling   ✔ Wall

Included with all beveled and straight edged Pro Panels

Quick installation

Offset Impaling Clips   X Ceiling   ✔ Wall

Creates an air cavity behind the ProPanels for improved mid-frequency absorption

1" and 2" offsets available

(4) offset clips needed per panel

Corner Impaling Clips   ✔ Ceiling   ✔ Wall

Increase your room's low-frequency absorption

Included with all M224 ProPanels

For horizonal corners use 2" thick panels only

Cloud Anchors   ✔ Ceiling   X Wall

Removable

Suspends ProPanels from the ceiling

Creates an adjustable air space between the ProPanel and the ceiling

Useful for mixed position & offset ceiling applications

Snap-On Anchors   ✔ Ceiling   ✔ Wall

Permanent installation

Use where flush mounting is desired

Ceiling & floor wall applications

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ProPanel ProKit-1™
For rooms 12' x 12' and up

ProPanel ProKit-2™
For rooms 18' x 20' and up

available colors
Standard Fabrics

SonoSuede™

(7) B224 Beveled Edge 2"x 2'x 4'
(2) M224 Mitered Edge 2" x 2'x 4'

(12) B224 Beveled Edge 2"x 2'x 4'
 (6) M224 Mitered Edge 2" x 2'x 4'
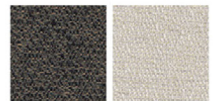
The Auralex **ProKit-1** and **ProKit-2** acoustical treatment packages are cost-effective solutions engineered to control excess mid- and high-frequency reflections in your room. Based on the Auralex Class A fire-rated, fabric-wrapped fiberglass ProPanels, these kits provide state-of-the-art absorption performance with high build quality, great aesthetics and low odor. The included panels cover more surface area than competing offerings, a more effective resolution to your room's acoustical problems.

Both kits include 2"x24"x48" beveled wall panels and reverse mitered corner bass trap panels to provide low-frequency absorption, critical in small to medium-sized rooms. The ProKit-1 and ProKit-2 room treatment systems are available in 4 stylish SonoSuede fabric choices, Red, Black, Tan and Brown, as well as our standard fabric colors, Sandstone and Obsidian. All mounting hardware is included. Additional ProPanel Cloud and monitor isolation solutions are also available.

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ProPanel Installation

General Guidelines

1. Whenever moving ProPanels, transport them with the shortest dimension in the vertical position to reduce potential stress or breaking of the fiberglass. Do not move ProPanels parallel to the floor without additional support.

2. If light colored fabrics are used, it may be a good idea to wear white cotton or latex gloves so dirt, grease or grime from the skin is not transferred to the fabric.

3. Pre-position ProPanels with a laser level (preferred), hand level or chalk line to ensure uniform installation. If ProPanels are being placed directly up against one another, simply use the first ProPanel as a reference point for adjoining ProPanels to be installed.

4. Make sure the wall has a completely flat su rface. Shim the ProPanels if necessary to create a uniform front surface.

5. Do not apply excessive pressure to a single or multiple small locations on the ProPanel so as to crush or dent the fiberglass core.

Adhesive Guidelines

1. The use of adhesives is highly suggested on all ProPanel thicknesses for a secure permanent installation, though it is only mandatory for ProPanels thicker than 2" or when mounting to an uneven, non- flat wall surface.

2. Use ONLY water-based, heavy bodied adhesives, such as Auralex's Tubetak ProTM.

3. Apply the adhesive liberally to the fiberglass in 4" x 4" sized areas, but do not apply any adhesive within 3" from the edge of the ProPanel. We do NOT recommend applying adhesive directly to the impaling clip points as doing so may prevent the clip from properly engaging the fiberglass. Applying adhesive to the flat face of the impaling clip will ensure a more secure installation.

4. To ensure that the panel fully engages the impaling clip, apply firm and even downward pressure to panel.

5. 6 lb. per cu ft density ProPanels over 2" thick must use Tubetak Pro adhesive for installation.

Additional Tools & Materials

1. Power Drill
2. Tape measure
3. Carpenters Level
4. Small ladder (depending on ceiling height)
5. Pencil
6. 160 .75"-1" drywall screws

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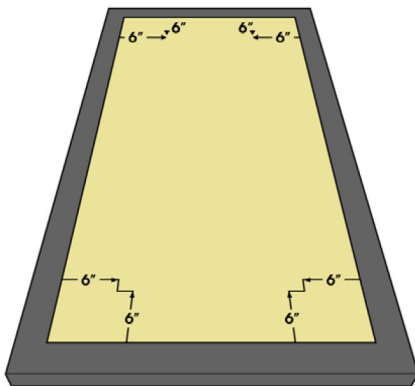ACOUSTIC WALL PANELS

ProPanel™ Acoustic Wall Panels

ProPanel Suspended Panel Installation

Note: Only use with 2" or 4" thick panels (16 sq/ft in area or less), and install Cloud Anchors on every corner of panels. For details on handling Auralex ProPanels, refer to the ProPanel Installation Guide included with your ProPanels.

Step One

Place the ProPanels on a clean flat surface. Measure and mark the location of each Cloud Anchor on the rear surface of the panel at each corner, and no less than 6" from each panel edge.

Step Two

Press the Cloud Anchor fimrly into the marked location and twist clockwise until the top disc of the anchor is flat to the back of the panel. Leave the top disc exposed, above the Mineral Fiber material.

Fig. 1

Top
Cloud Anchor
Placement

Fig. 2

Top
Cloud Anchor
Installation
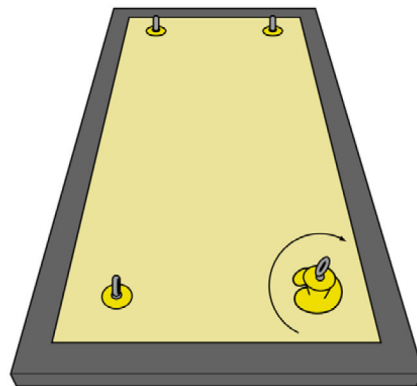
Step Three

Place the ProPanels on a clean flat surface. Measure and mark the location of each Cloud Anchor on the rear surface of the panel at each corner, and no less than 6" from each panel edge.

Fig. 3

Perspective
**Hangling Wire
Installed** (not included)

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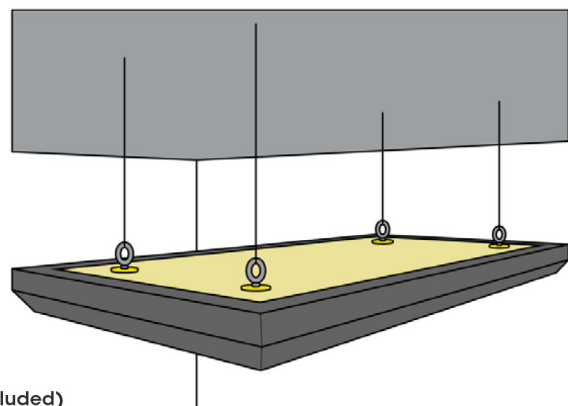
ProPanel Snap-On Installation (Wall or Ceiling)

Note: Only use with 2" or 4" thick panels (16 sq/ft in area or less), and install Snap-On Anchors on every corner of panels. For details on handling Auralex ProPanels, refer to the ProPanel Installation Guide included with your ProPanels.

Step One

Place the ProPanels on a clean flat surface. Measure and mark the location of each Snap-On Anchor on the rear surface of the panel at each corner, and no less than 6" from each panel edge.

Fig. 1

Perspective
**Hangling Wire
Installed**
(not included)
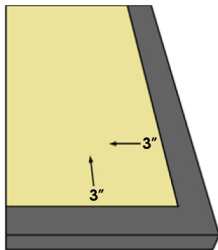
Step Two

Twist the Anchor into the marked location and using the included hex driver until the top disc of the anchor is flat to the back of the panel, and insert the included marking plugs.

Fig. 2a
& 2b

Top
**Anchor & Plug
Installation**
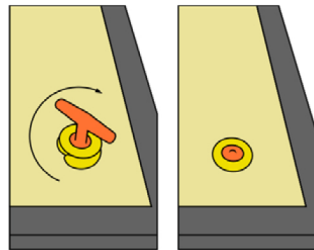
Step Three

Push panel against wall to mark anchor locations. Remove marking plugs when finished making marks.

Fig. 3

Back
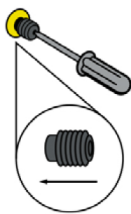(2"x 24"x 48" Panel Shown)
**Marking Anchor
& Position with
Plugs**
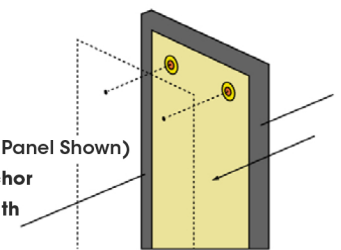
Step Four

Screw included ratchet plugs into wall anchors appropriate for your wall construction and weight of your panel. Note that ratchet plugs are directional.

Fig. 4

Front
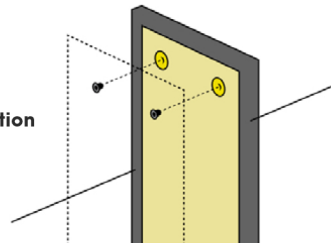**Anchor & Ratchet
Plug Installation**

Step Five

With marking plugs removed, firmly push the panel onto the installed ratchet plugs to complete your installation.
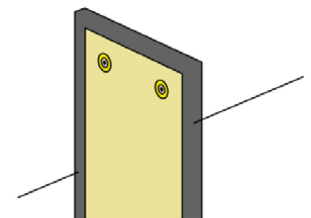
Fig. 5

Back
Panel Installation

Step Six

Once complete, panel should be near- flush with the wall of ceiling surface.

Fig. 6

Back
**Installation
Complete**

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ProPanel Wall Installation

Panel Size (1" or 2" Thick)	No. of Impaling Clips
2' x 2'	2
2' x 4'	2
4' x 4'	4
4' x 6'	6
4' x 8'	6

Impaling Clips (Standard, 1", 2", and Offset)

Note: Impaling clips are used for wall installations only. For corner panels, use Auralex Corner Impaling Clips. For mounting or suspending ProPanels from the ceiling, use Auralex Snap-On Anchors or Auralex Cloud Anchors, respectively.

Fasten impaling clips to the wall using drywall screws, concrete anchors, or shots and pins for concrete block or pre-cast concrete walls. For offset impaling clips, always use minimum of 4 clips per panel.

Step One

Measure and mark desired panel placement, and bend impaling spikes outward 45° by hand. Mount Impaling Clips no less than 4" from desired panel edges and with impalers pointing upward.
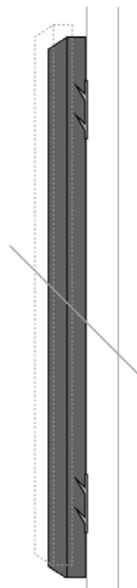
Step Two

Lift panel 3/4" higher than the desired position, and fasten panel by applying gentle pressure downward at a 45° angle until panel is flush with Impaling Clips.
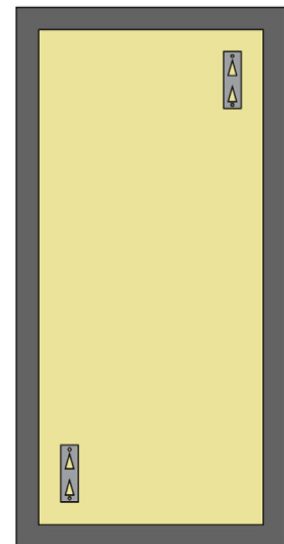
Step Three

Impaling Clips should securely fasten into the Mineral Fiber material of the panel. Try not to make adjustments once mounted to avoid the panel loosening.

Fig. 1: Front (Standard Impaling Clips Shown)
Impaler Placement Planning

Fig. 2: Side
Panel Alignment

Fig. 3: Back
Mounting Complete

ProPanel™ Acoustic Wall Panels

ProPanel Corner Panel Installation

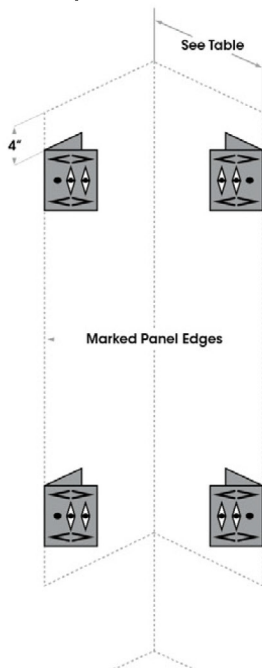| Panel Type	Corner Measurement
24" wide M224 ProPanels	13 7/8"
24" wide B224/S224 ProPanels	16 5/8"
16" wide SonoSuede Corner Traps	8 1/4"

Corner Impaling Clips

Note: Fasten impaling clips to the wall using drywall screws, concrete anchors, or shots and pins for concrete block or pre-cast concrete walls.

For horizontal corners (joing wall and ceiling), use the larger exterior points, bending each 45° until parallel with the floor. Additionally, secure horizontal corner panels by applying Tubetak Pro adhesive to the impaling clip faces.

Step One

Measure and mark desired panel placement (see table above), and bend the appropriate impaling spikes outward 45°. Mount Impaling Clips no less than 4" from desired panel edges.

Step Two

Lift panel 3/4" higher than the desired position, and fasten panel by applying gentle pressure downward at a 45° angle until panel is flush with Impaling Clips.
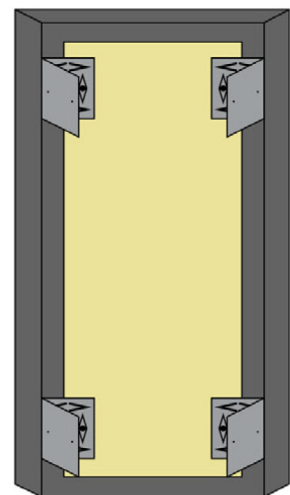
Step Three

Impaling Clips should securely fasten into the Mineral Fiber material of the panel. Try not to make adjustments once mounted to avoid the panel loosening.

Fig. 1: Front (See table above for corner measurement)
Corner Impaler Placement Planning

See Table

4"

Marked Panel Edges

Fig. 2: Front
Corner Panel Alignment
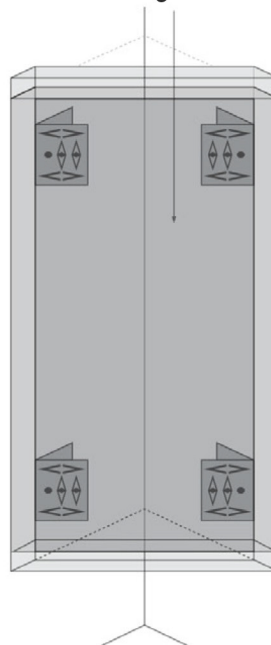
Fig. 3: Back
Mounting Complete

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## ACOUSTIC WALL PANELS
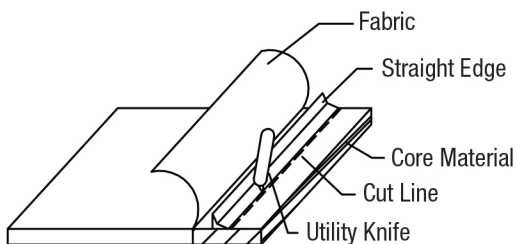
Edge Cutting Guideline

NOTE: Auralex is not responsible for damage done to any ProPanel during modification.

Follow these instructions to edge cut your ProPanels. The fabric is only laminated to the edges and the back of the ProPanel. No adhesive was, or should be, used on the face of the ProPanel. Therefore, when you pull the fabric from the back and edge, it will fall away from the face of the ProPanel.

1 Lay the ProPanel down with the fabric face up. Start from the back of the ProPanel and pull the fabric away from the back and edges of the ProPanel. Pull the fabric back at least two inches beyond the cut line. Mark the core at the desired cut line. Be sure to deduct for the fabric thickness.
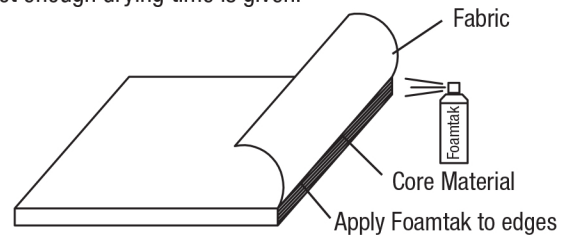

Fabric
2"
Core Material
Cut Line
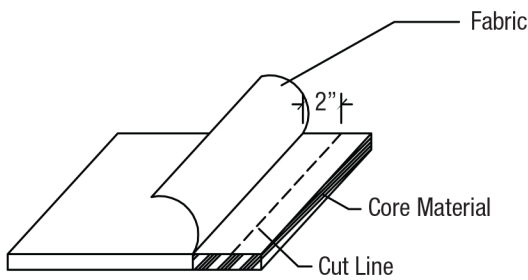
2 Clamp a straight edge at the cut line. Cut through the core, following the straight edge.

Fabric
Straight Edge
Core Material
Cut Line
Utility Knife

3 Cut the fabric, leaving two inches more fabric than the core and edge thickness.

Leave 2" more fabric than core and edge thickness
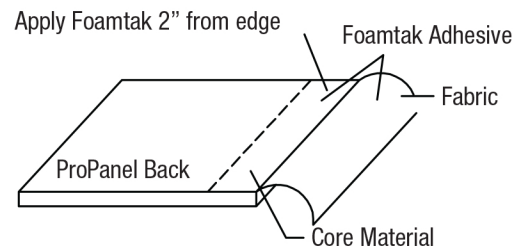Fabric
Core Material
Cut Line
Utility Knife or Scissors
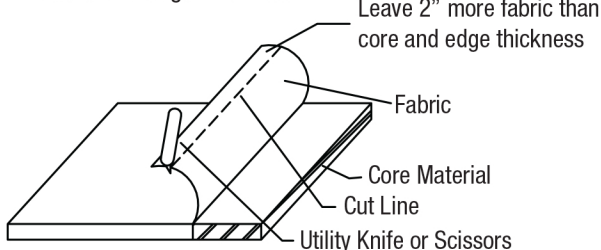
4 Roll the fabric so the back of the fabric is at the edge of the cut line (see drawing below). Lightly spray Auralex® Foamtak™ adhesive on the exposed edges. Do not get adhesive on the face of the ProPanel. Let the adhesive set for at least 15 seconds. Permanent discoloring of the fabric will occur if too much adhesive is used or not enough drying time is given.


Fabric
Foamtak
Core Material
Apply Foamtak to edges

5 Starting at the middle of the cut edge, gently pull the fabric taut (without distorting the fabric) and press it against the edge of the ProPanel. Work toward one end. When complete, go back to the middle and, using the same techniques, work to the other end of the cut edge.

6 After the fabric is pressed to all edges, and after confirming that the table is clean, turn the ProPanel face down. Apply Auralex Foamtak adhesive on the back of the ProPanel 2" in from the edge and to the back of the fabric. Press the fabric down to the back of the panel along the edges and press the fabric together at the corners.

Apply Foamtak 2" from edge
Foamtak Adhesive
Fabric
ProPanel Back
Core Material

7 At the corners, trim the back and edges with sharp scissors. Leave enough fabric to close each corner. Install the ProPanel.

Fabric

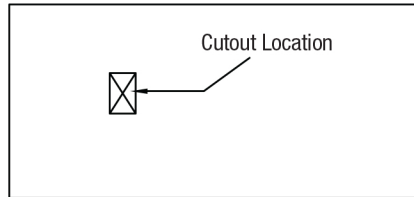# Auralex® | ProPanel™
acoustics | ACOUSTIC WALL PANELS
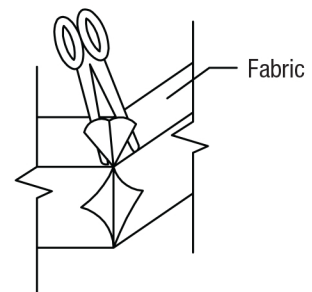
Outlet Cutting Guideline

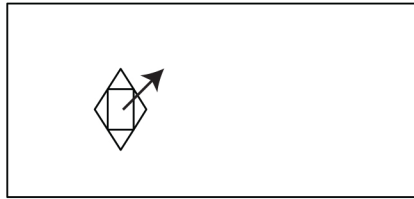**NOTE: Auralex is not responsible for damage done to any ProPanel during modification.**

1 Measure outlet locations on the front of the ProPanel. Cut two diagonal lines in a crisscross pattern from corner-to-corner of the cutout.

Step 1

Cutout Location

2 Lay back each flap of fabric and, with a sharp razor knife, cut through the core. Remove the cutout core.

Step 2

3 Turn the ProPanel over with the back of the ProPanel facing up. Make sure each fabric flap is exposed at the bottom of the cutout so the back of the fabric is exposed. Spray Auralex® Foamtak™ adhesive on the inside edges of the cutout and the back of the ProPanel around the cutout. Avoid getting adhesive on the face of the fabric. Let the adhesive set for at least 15 seconds. Permanent discoloring of the fabric will occur if too much adhesive is used or not enough drying time is given.

Step 3

Back

Back

Spray Auralex Foamtak adhesive at least 2" in from edge on the back of the ProPanel.
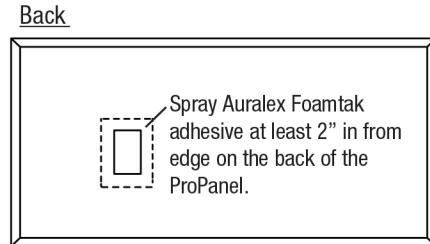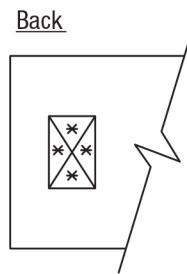
4 Lay each flap of fabric back in the cutout, pressing each flap against the inside edge of the cutout. Return each flap to the back of the ProPanel and press the fabric firmly to the adhesive.

5 The panel is now ready to install. **NOTE: A cover plate should always be placed over any cutout in a ProPanel.**

Step 5