



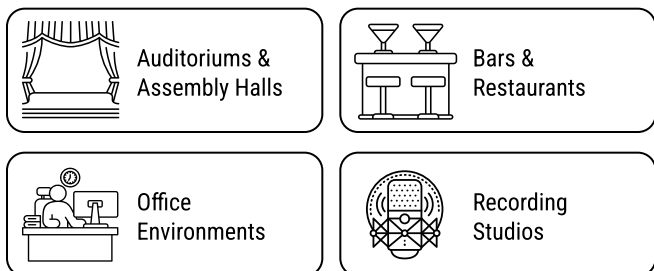
ACOUSTICAL PRODUCTS

1 DIMENSIONAL DIFFUSER

DESCRIPTION

Diffusers featuring deep wells provide effective diffusion in the low-frequency range but exhibit considerable limitations in the high-frequency range. The integration of a one-dimensional nested diffuser results in an expanded diffusion bandwidth, surpassing that of conventional diffusers. Consequently, this facilitates a uniform sound field across an extensive frequency spectrum. This particular diffuser ensures consistent diffusion above 400Hz. It was designed using AFMG Reflex, a simulation software grounded in the Boundary Element Method (BEM), which accurately computes the reflection, diffusion, and scattering characteristics of the diffuser surface.

TYPICAL APPLICATIONS



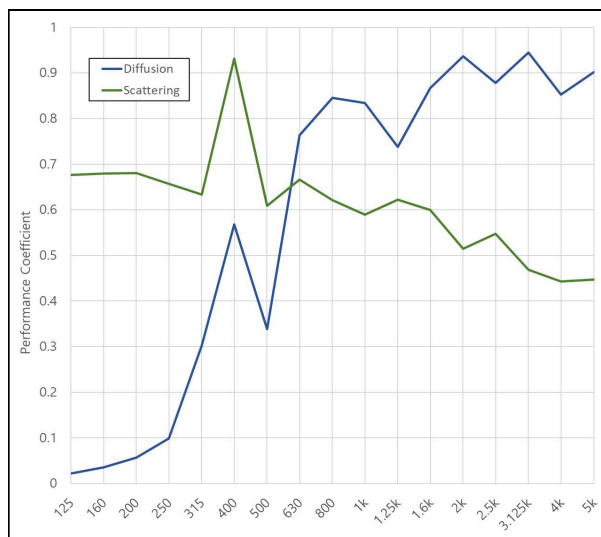
KEY ATTRIBUTES

- 01** Complete standard system from one manufacturer, including panels, suspension, clips, and edge options.
- 02** Custom options includes panel configuration, fabric selection, panel lengths, and edge detail.
- 03** Individual panels allow for modular placement and customization.

SPECIFICATIONS

Fire Rating	Class A per ASTM E-84
Sizing	Panel Size: 23.75" W x Varying Height x (9" Depth)
Tolerance	(+/- 1/16")
Customization	Offered in a wide variety of materials such as premium wood veneers, laminates, as well as painted or stained finish options.
Installation	Due to the size and depth of the diffuser, it is often recessed in the wall and mounted on blocking. Also available with an aluminum cleat mounting system.

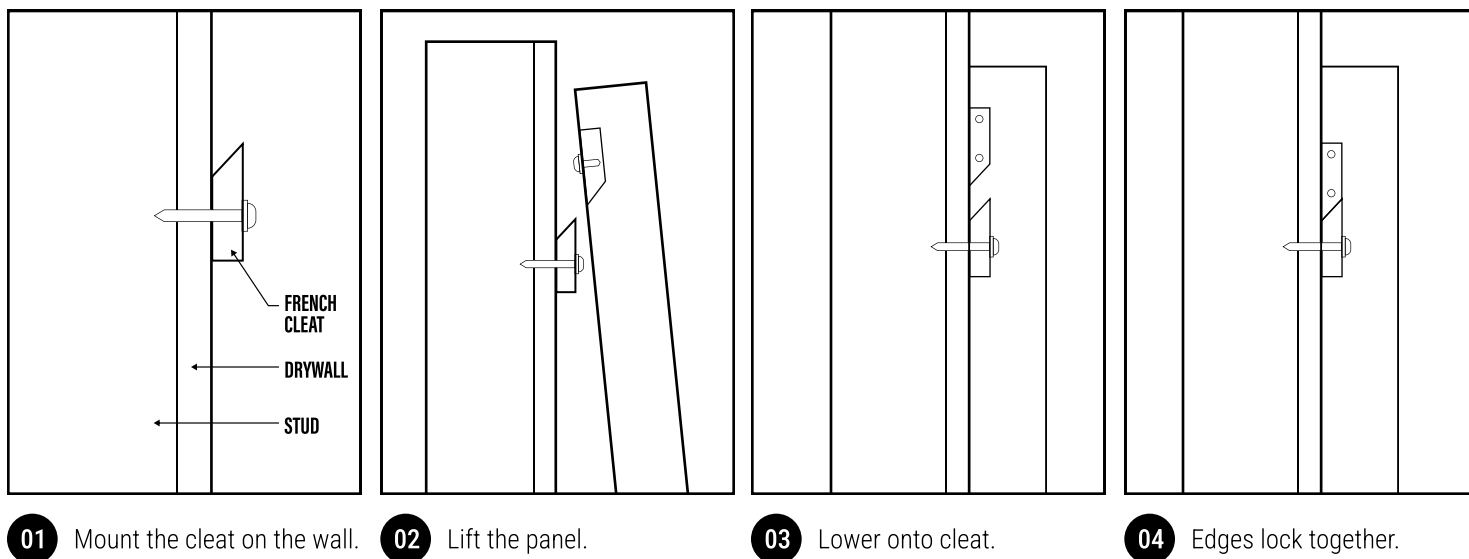
ACOUSTIC PERFORMANCE



ACOUSTICAL PRODUCTS

1 DIMENSIONAL DIFFUSER

INSTALLATION OPTIONS

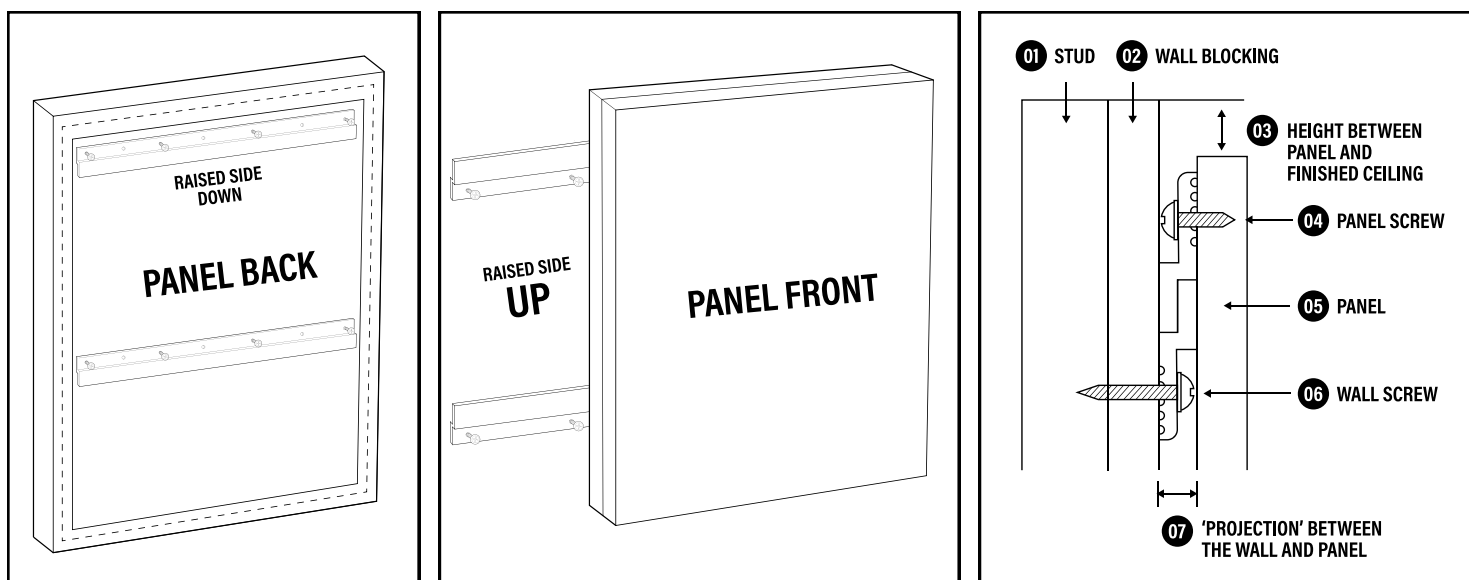


FRENCH CLEAT SYSTEM

For our wall-mounted installations, we utilize a French Cleat System. This method is highly recommended due to its exceptional stability and reliable support, ensuring secure and long-lasting installations.

The French Cleat System features a straightforward installation process, making it user-friendly for both professionals and DIY enthusiasts. Additionally, this system minimizes wall damage by reducing the number

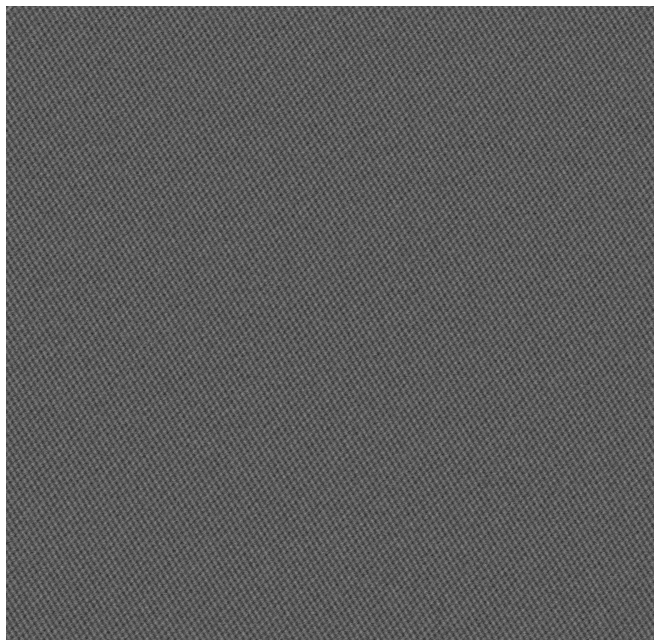
of holes required, thus preserving the integrity and aesthetics of your wall surfaces.



Z CLIP SYSTEM

Z-clips are an alternative method for installing our wall mounted panels. The interlocking design offers strong, secure support for heavy panels with no visible hardware, resulting in a clean, professional finish.

Z-clips are attached to both the wall and the panels, ensuring easy alignment and quick installation. This method also allows for easy removal and repositioning, making it a flexible and cost-effective option.



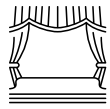
ACOUSTICAL PRODUCTS

FABRIC ABSORBER PANEL

DESCRIPTION

Our premium fabric-wrapped acoustic panel is engineered for superior sound absorption and aesthetic appeal. This panel features a 6 PCF rigid fiberglass substrate, ensuring optimal acoustic performance by effectively minimizing sound reflections. The resin-hardened edges enhance durability and structural integrity, making it a reliable choice for various applications. The fabric finish is designed to seamlessly integrate with any interior design, providing a sophisticated solution for noise control. Ideal for use in commercial spaces, recording studios, and theatrical environments, our acoustic fabric absorber panel combines exceptional quality with cost-efficiency.

TYPICAL APPLICATIONS



Auditoriums & Assembly Halls



Bars & Restaurants



Office Environments



Recording Studios

KEY ATTRIBUTES

- 01** Complete standard system from one manufacturer, including panels, suspension, clips, and edge options.
- 02** Custom options includes panel configuration, fabric selection, panel lengths, and edge detail.
- 03** Individual panels allow for modular placement and customization.

SPECIFICATIONS

Fire Rating Rigid Board	Faced board - Flame Spread 25, Smoke Developed Index 50.
Fire Rating Burch Fabrics	ASTM-E84 Class I or A.
Sizing	Any size is available up to 4'x10'. Typical thicknesses are 1" or 2". 3" or 4" are available.
Tolerance	(+/- 1/16")
Customization	The edges of the panels can be square, miter and bevel.
Installation	Aluminum cleat system available for wall applications. Grooved and splined edges can be utilized to create ceiling clouds, along with appropriate mounting hardware.

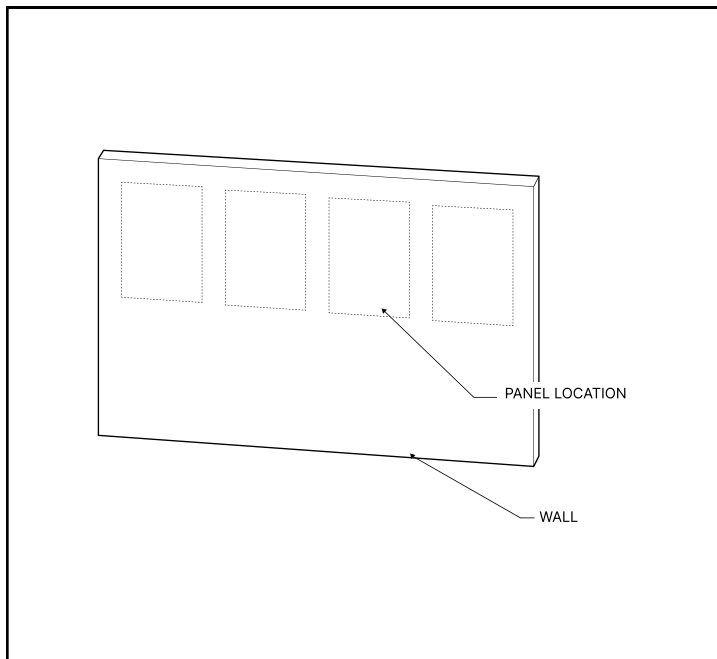
ACOUSTIC PERFORMANCE

THICKNESS (Inches)	THICKNESS (MM)	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	NRC
1	25	0.01	0.22	0.67	0.97	1.05	1.06	0.75
2	50	0.19	0.78	1.16	1.13	1.06	1.06	1.05
3	75	0.4	1.13	1.19	1.12	1.07	1.06	1.15
4	100	0.6	1.16	1.15	1.09	1.1	1.06	1.15

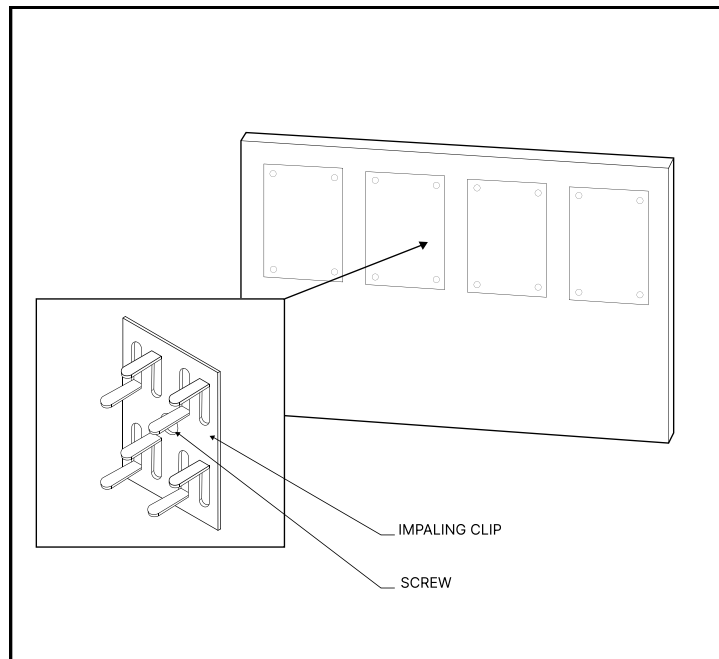
ACOUSTICAL PRODUCTS

FABRIC ABSORBER PANEL

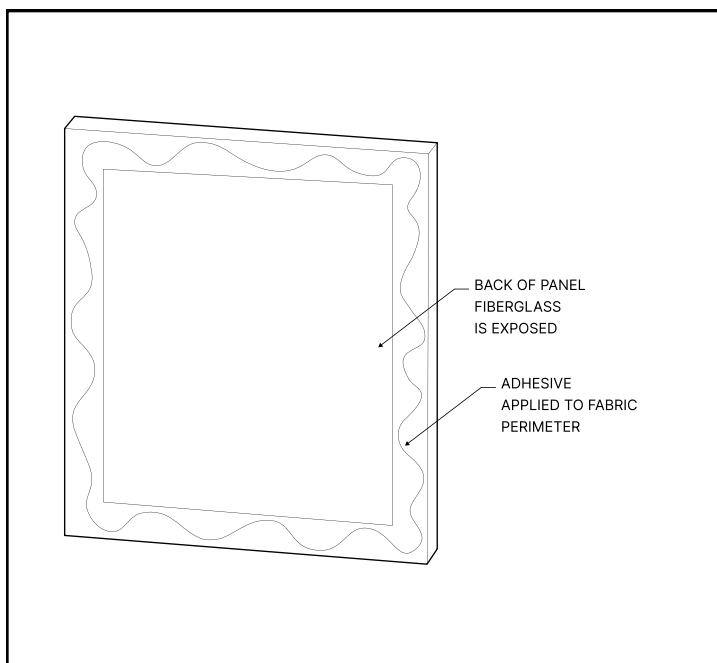
INSTALLATION OPTIONS



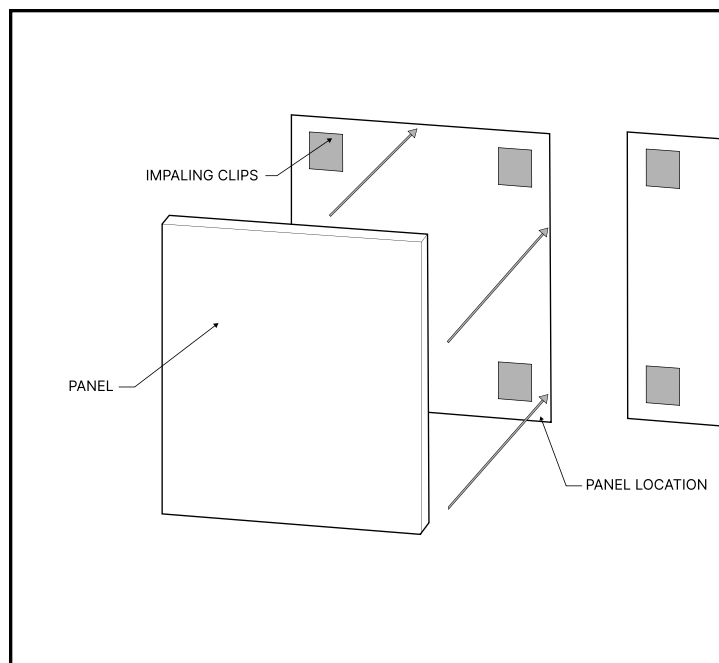
01 Layout the panel location on the wall.



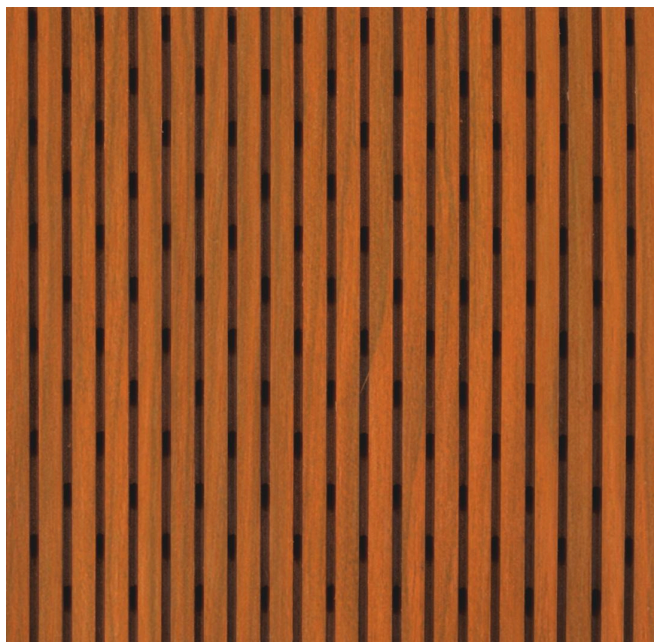
02 Secure Impaling Clips to wall using appropriate fasteners. Clips should be located to ensure there is no contact between clips and fabric.



03 Apply generous amount of liquid nails or construction adhesive to panel along the perimeter of the fabric.



04 Ensure the panel is located properly, press panel firmly to wall; make sure the fiberglass core is being impaled by the clips, not the fabric.



ACOUSTICAL PRODUCTS

GROOVED PANEL ABSORBER

DESCRIPTION

The grooved panel absorber offers an absorption solution, where speech intelligibility and critical listening are essential. This product is a perfect solution to the acoustic treatment of listening rooms and recording studios while enhancing the visual appeal of the space with an elegant wood finish. The panel has fiberglass insulation backing with variable thickness depending on the acoustic needs of the space. The panel offers an effective absorption solution at frequencies below 1kHz. The absorptive frequency range can be easily lowered by increasing the rear insulation thickness. Frequencies above 1kHz are reflected, avoiding unnecessary absorption of the high frequency region. Groove and perforation patterns are custom tailored to meet the projects specifications.

TYPICAL APPLICATIONS



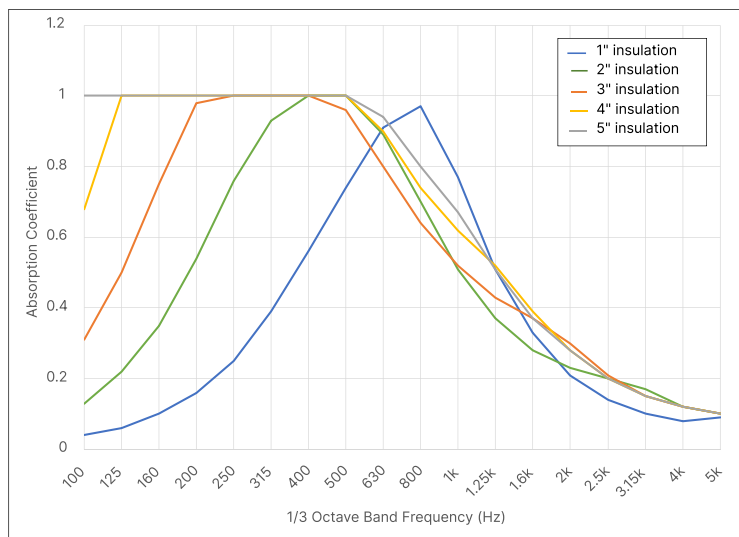
KEY ATTRIBUTES

- 01** Complete standard system from one manufacturer, including panels, suspension, clips, and edge options.
- 02** Custom options includes panel configuration, fabric selection, panel lengths, and edge detail.
- 03** Individual panels allow for modular placement and customization.

SPECIFICATIONS

Fire Rating	Class A per ASTM E-84
Sizing	Panel Size: 4' W x 10' H x 3/4" D
Tolerance	(+/- 1/16")
Customization	Offered in a wide variety of materials such as premium wood veneers, laminates, as well as painted or stained finish options.
Installation	Aluminum cleat system available for wall applications. Grooved and splined edges can be utilized to create ceiling clouds, along with appropriate mounting hardware.

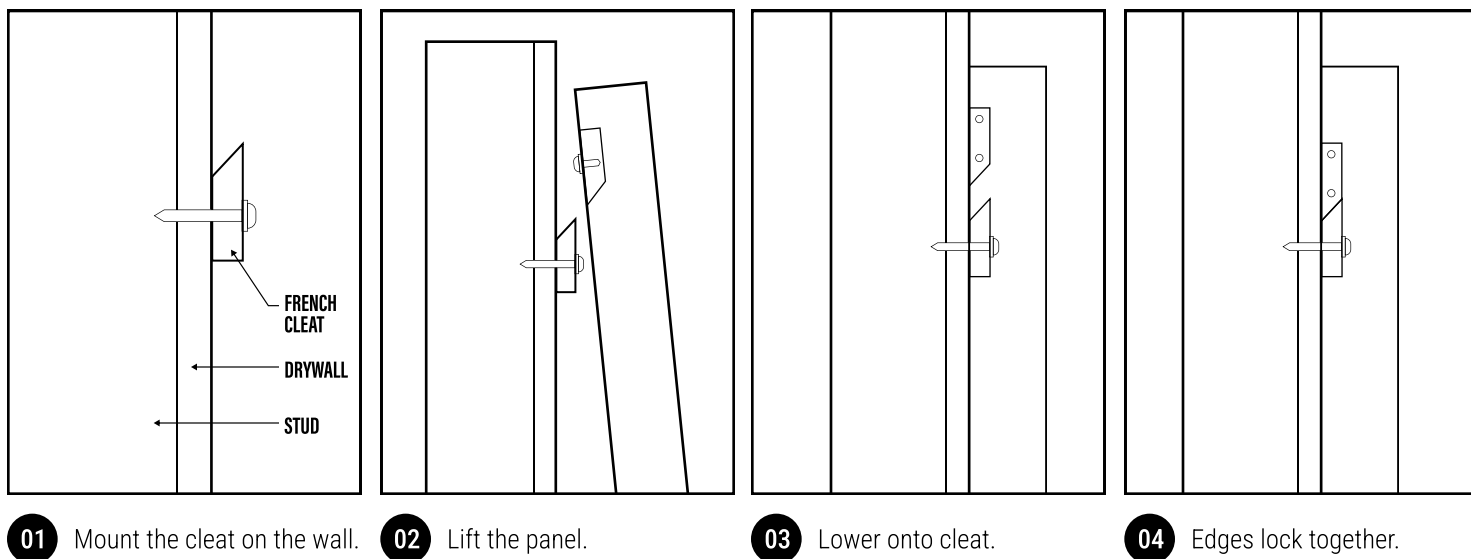
ACOUSTIC PERFORMANCE



ACOUSTICAL PRODUCTS

GROOVED PANEL ABSORBER

INSTALLATION OPTIONS

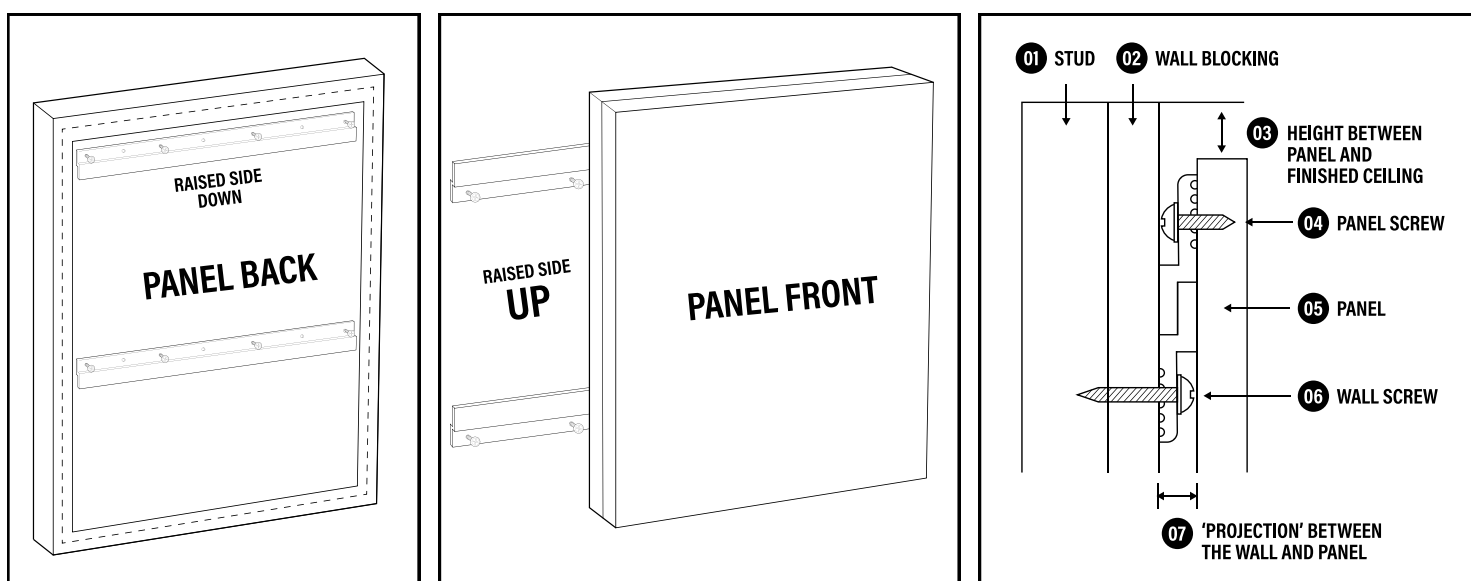


FRENCH CLEAT SYSTEM

For our wall-mounted installations, we utilize a French Cleat System. This method is highly recommended due to its exceptional stability and reliable support, ensuring secure and long-lasting installations.

The French Cleat System features a straightforward installation process, making it user-friendly for both professionals and DIY enthusiasts. Additionally, this system minimizes wall damage by reducing the number

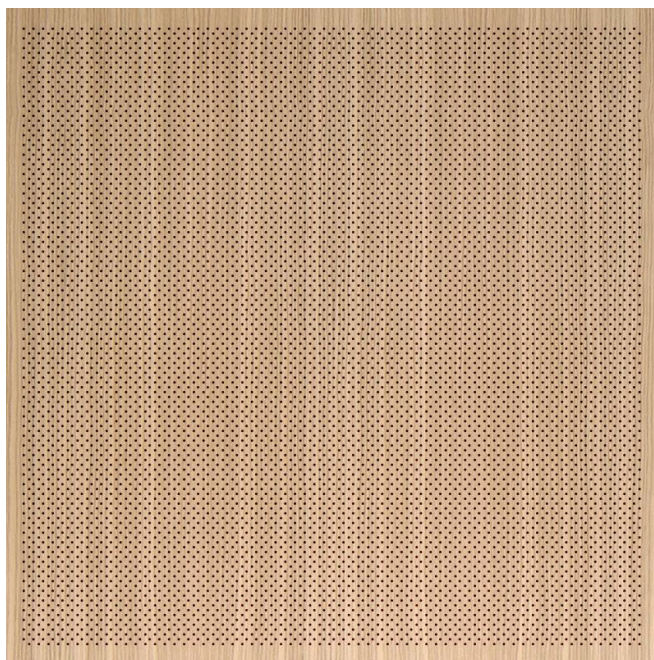
of holes required, thus preserving the integrity and aesthetics of your wall surfaces.



Z CLIP SYSTEM

Z-clips are an alternative method for installing our wall mounted panels. The interlocking design offers strong, secure support for heavy panels with no visible hardware, resulting in a clean, professional finish.

Z-clips are attached to both the wall and the panels, ensuring easy alignment and quick installation. This method also allows for easy removal and repositioning, making it a flexible and cost-effective option.



ACOUSTICAL PRODUCTS

MICRO PERFORATED PANEL

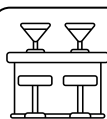
DESCRIPTION

The micro perforated panel absorber offers a broad band absorption solution, where aesthetics are paramount. The elegant wood finish offered in a variety of veneer species combined with the 0.65mm holes provide a visually appealing product with outstanding acoustic performance. The panel has fiberglass insulation backing with variable thickness depending on the acoustic needs of the space.

TYPICAL APPLICATIONS



Auditoriums &
Assembly Halls



Bars &
Restaurants



Office
Environments



Recording
Studios

KEY ATTRIBUTES

- 01** Complete standard system from one manufacturer, including panels, suspension, clips, and edge options.
- 02** Custom options includes panel configuration, fabric selection, panel lengths, and edge detail.
- 03** Individual panels allow for modular placement and customization.

SPECIFICATIONS

Fire Rating

Class A per ASTM E-84

Sizing

Panel Size: 4' W x 10' H x 3/4" D

Tolerance

(+/- 1/8")

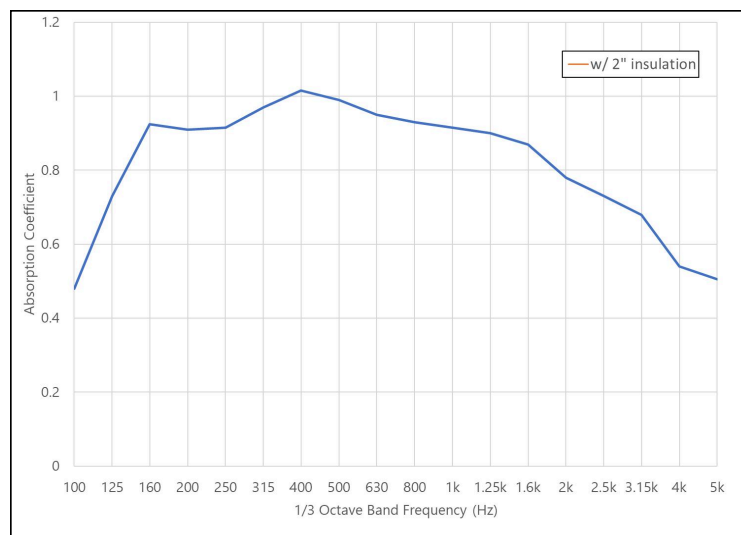
Customization

Offered in a wide variety of materials such as premium wood veneers, laminates, as well as painted or stained finish options.

Installation

Aluminum cleat system available for wall applications. Grooved and splined edges can be utilized to create ceiling clouds, along with appropriate mounting hardware.

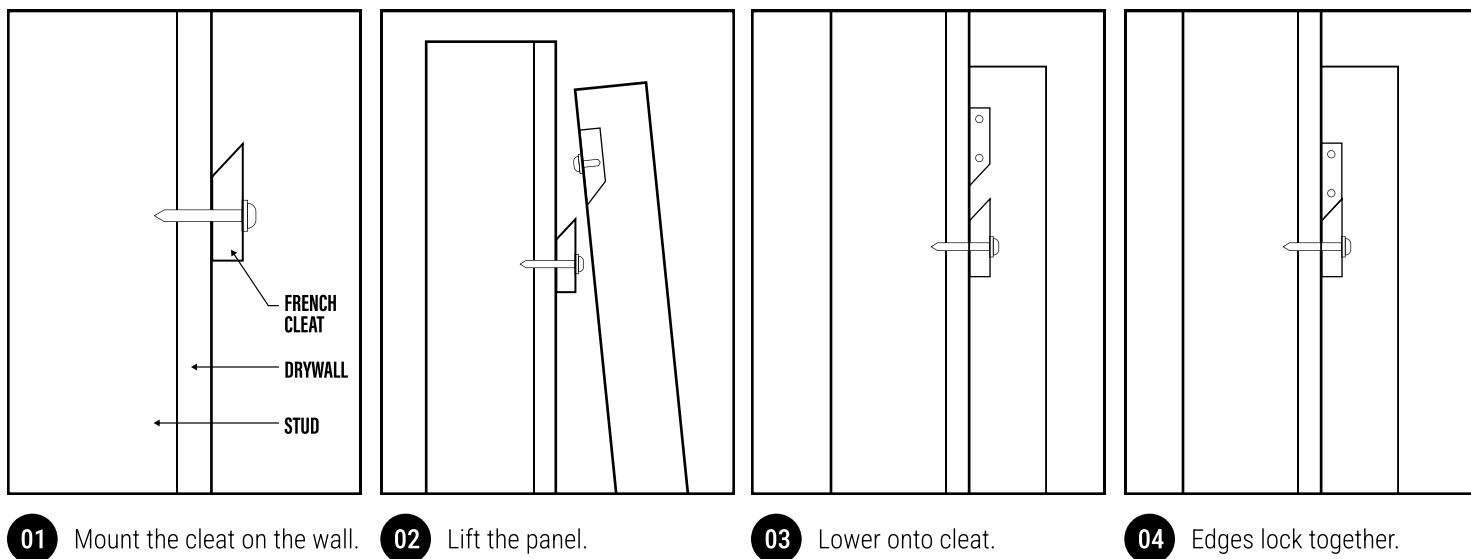
ACOUSTIC PERFORMANCE



ACOUSTICAL PRODUCTS

MICRO PERFORATED PANEL

INSTALLATION OPTIONS

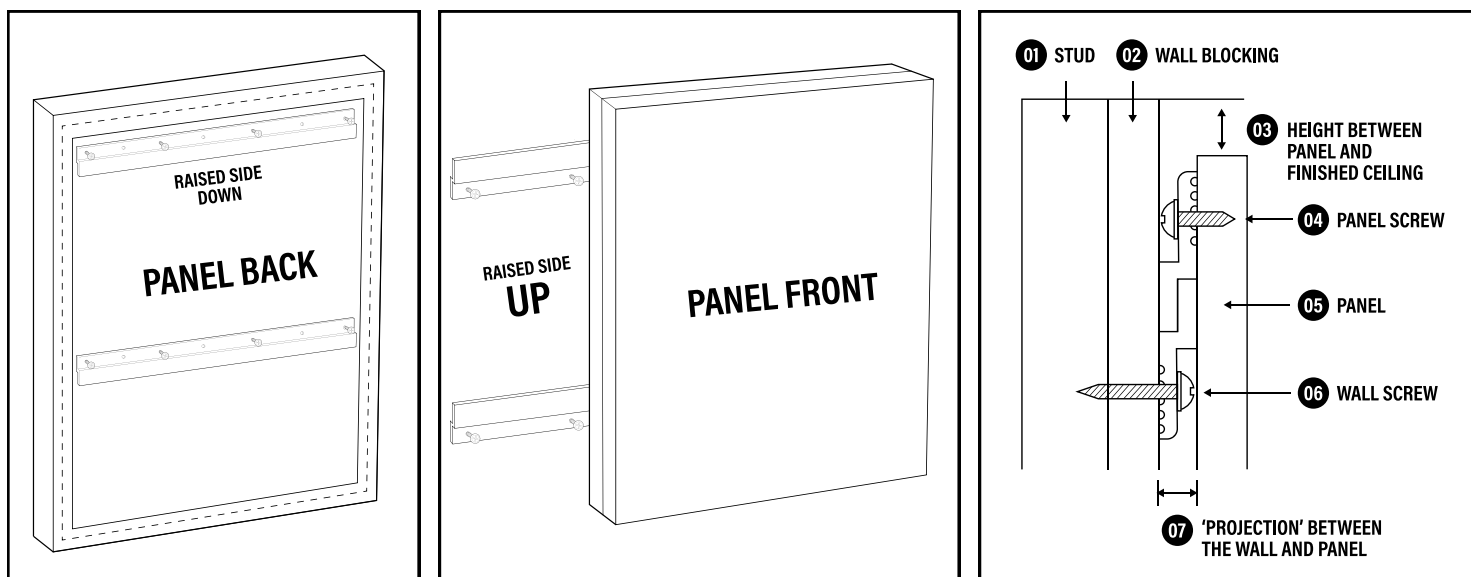


FRENCH CLEAT SYSTEM

For our wall-mounted installations, we utilize a French Cleat System. This method is highly recommended due to its exceptional stability and reliable support, ensuring secure and long-lasting installations.

The French Cleat System features a straightforward installation process, making it user-friendly for both professionals and DIY enthusiasts. Additionally, this system minimizes wall damage by reducing the number

of holes required, thus preserving the integrity and aesthetics of your wall surfaces.



Z CLIP SYSTEM

Z-clips are an alternative method for installing our wall mounted panels. The interlocking design offers strong, secure support for heavy panels with no visible hardware, resulting in a clean, professional finish.

Z-clips are attached to both the wall and the panels, ensuring easy alignment and quick installation. This method also allows for easy removal and repositioning, making it a flexible and cost-effective option.