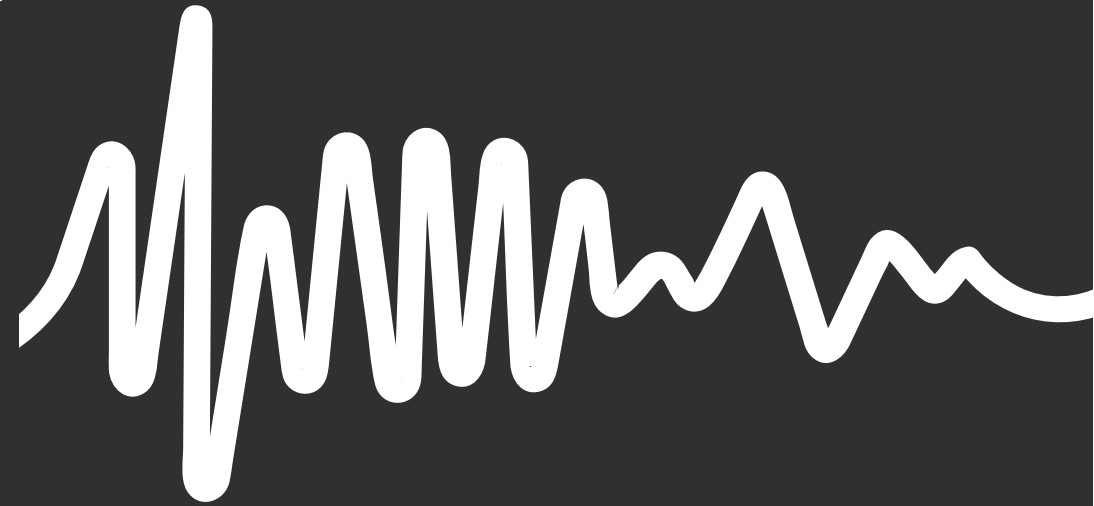




Specialized Products Catalog



Specialized Products Catalog

CONWED





Specialized Products Catalog

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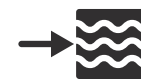
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Date of last revision: 07.10.2024

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Icon glossary



Absorb



Diffuse



Reflect



Block



Fabric



Paint



Core



Max sizes



Fire rating



Warranty



NRC



NAF



Mounting



Shapes



Edge details



Kerf/
square



Finish wrapped
wall panel



Finish wrapped
ceiling panel



Finish wrapped
tile



Finish wrapped
baffle



Finish wrapped
cloud

What are Specialized Products?

The primary function of an acoustic solution is to absorb unwanted noise in a space. In certain applications though, solutions need to **block**, **diffuse**, or **reflect** sound as well.

Our **Specialized** products are made with the same materials as our Core Products for absorbing noise but also utilize other materials in order to **block**, **diffuse**, and **reflect**.

These specialized acoustic properties are often used in spaces like performance centers, auditoriums, and private rooms.

Four acoustic functions



Absorb

Noise absorption is a product trapping sound waves, preventing reverberation. Sound can still pass through and around the product, but the better it absorbs, the less noise will escape it. A product's ability to absorb is measured by its Noise Reduction Coefficient (NRC).



Diffuse

Diffusion is scattering a soundwave into multiple directions, ensuring all frequencies are distributed throughout a space.



Reflect

Reflection is bouncing a soundwave back to the source, or redirecting it somewhere else; preventing soundwaves from being trapped in high spaces.



Block

Blocking noise does not quiet the room where the noise is. Rather, it prevents noise from passing through a wall or ceiling, keeping other spaces quiet.

Note → An acoustic product can have multiple of these attributes depending on the materials in it. Such as adding a vinyl blocking layer behind an already absorbing product.

Products & attributes

	Absorbs	Diffuses	Reflects	Blocks
Diffusers		✓		
Reflective clouds		✓	✓	
Reflective wall panels			✓	
Loaded vinyl	✓			✓
Low frequency tuners	✓			
Omniplane	✓	✓	✓	
SelectSound	✓			
Wall panels	✓			
Ceiling panels	✓			
Baffles	✓			
Clouds	✓			
Tiles	✓			

Core products

Finishes

Fabric

Carnegie DESIGNTEX maharam kvadrat Knoll Guilford of Maine

Paint

Any color imaginable from Sherwin Williams.

**SHERWIN
WILLIAMS®**



Finding the right solution.

Selecting the right combination of products and attributes for your space can be difficult.

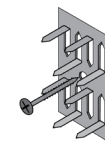
CEXP is here to help you navigate all the variables and create the perfect solution with you.

419.871.9084

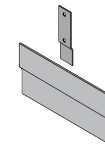
CEXP@conwed.com

Mounting

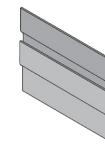
Reflective Wall Panels, Low Frequency Tuners, & Omniplane Diffusers



Impaling clips



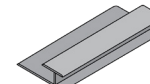
Z-clip to z-bar



Z-bar to z-bar

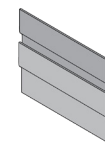


Rotofast® anchor



Spline

Loaded Vinyl



Z-bar to z-bar

Diffusers

Flange

Flanged diffusers mounting using grid.



No flange

No flange diffusers mounting using L-angles.



Reflective Clouds

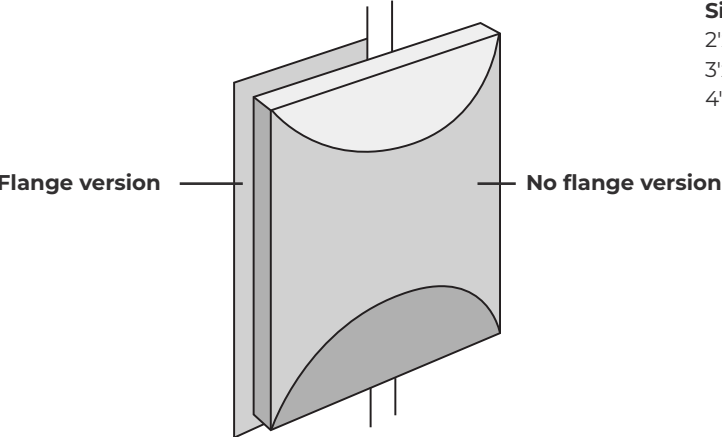
Depending on the size of the reflector, a different number of attachment points for heavy cables or wires will be on the product. See the full document at conwed.com/installguide-reflectivecloud

Diffusers

Diffusers are designed for performance areas, auditoriums, and other facilities requiring enhanced audio, by scattering sound frequencies in several directions.

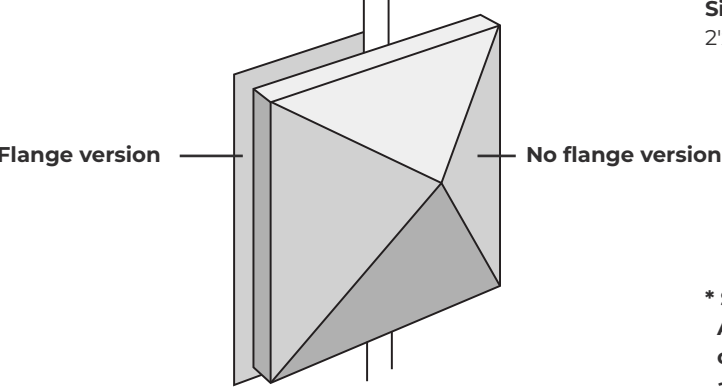


Barrel Diffuser



Sizes*
2'x2', 2'x4', 3'x3',
3'x4', 3'x6', 4'x4',
4'x6', 4'x8'

Pyramidal Diffuser



Sizes*
2'x2', 2'x4', 4'x4'

* Sizes are nominal.
Additional & custom sizes available by request.

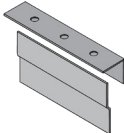
Finish wrapped on all sides



Mounting

No-flange Diffusers mounted using L-angles.

Flanged Diffusers mounted using grid.



L-angles

Materials

Both Barrel & Pyramidal Diffusers can be made from thermoform or gel coat.

Thermoform
Copolymer formed with heat into the diffuser shape/size using a mold.

Gel Coat
Fiberglass and resin mixture is sprayed into a mold to create the diffuser shape/size.

Fabrics brands

See our [Finish Guide](#) for more inspiration.

Since Diffusers have such unique shapes, only certain fabric lines are compatible with them.

Carnegie
Alex
Elite

DESIGNTEX
Gamut
Rocket

maharam
Manner
Medium
Messenger
Mode

Guilford of Maine
Anchorage
2100

Knoll
Beacon
Circuit

Paint

Any color imaginable from Sherwin Williams.

SHERWIN WILLIAMS®

NRC

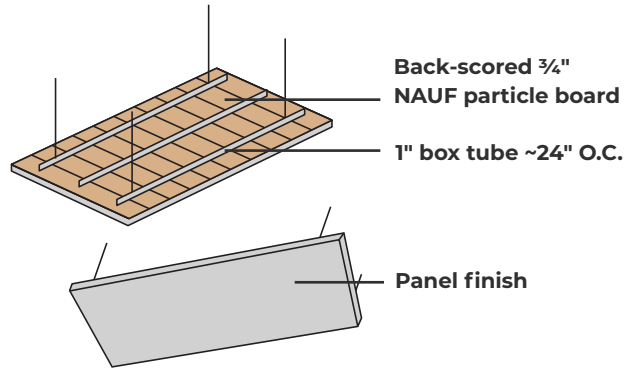
NRC →	Gel coat		Thermoform			
	Barrel L-angle mounted	Barrel Lay-in grid mounted	Barrel L-angle mounted	Barrel Lay-in grid mounted	Pyramidal L-angle mounted	Pyramidal Lay-in grid mounted
	0.10	0.10	0.10	0.10	0.10	0.10

The image shows a wide-angle view of a modern, dimly lit auditorium. The ceiling is a prominent feature, composed of a grid of dark, curved, rib-like structures that create a series of shallow, bowl-like shapes. These structures are illuminated from below, casting a warm, ambient glow. The walls are dark, with several vertical, rectangular light fixtures that provide additional illumination. The floor is covered with rows of dark, upholstered seats, arranged in a semi-circular pattern. The overall atmosphere is one of sophisticated, minimalist design.

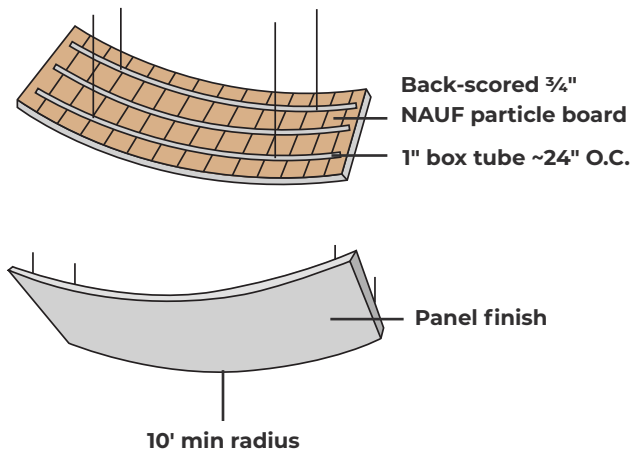
Reflective Clouds

Reflective Clouds bounce sound to the hard-to-reach areas of an auditorium or theater, allowing audio engineers to make every seat in the house a sweet spot.

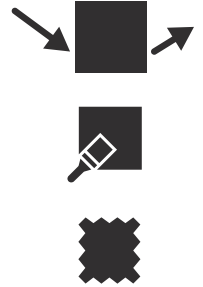
Flat Reflective Clouds



Curved Reflective Clouds



Finish wrapped on all sides



Fabrics brands

See our [Finish Guide](#) for more inspiration.

Carnegie
kvadrat

DESIGNTEX
Knoll

maharam
Guilford of Maine

Paint

Any color imaginable from Sherwin Williams.

**SHERWIN
WILLIAMS®**

Wood & laminate

Contact CEXP@conwed.com for more info.

Max size & thickness

Reflective Clouds are $\frac{3}{4}$ " thick and come in a max size of 4'x8'.

Mounting

Depending on the size of the reflector, a different number of attachment points for heavy cables or wires will be on the product. See the full document at conwed.com/installguide-reflectivecloud

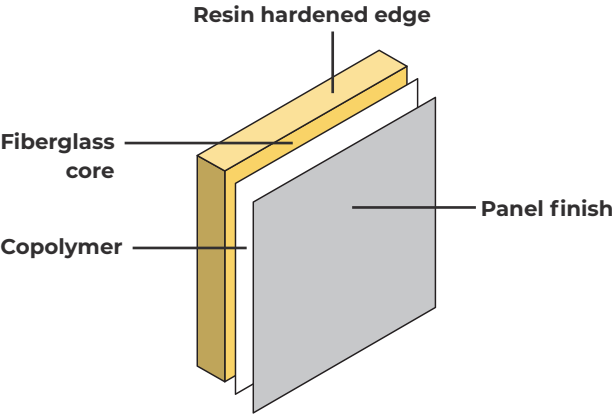
conwed.com/datasheet-reflective-flatcloud
conwed.com/datasheet-reflective-curvedcloud

A photograph of a theater interior. The foreground is filled with rows of empty, dark-colored seats. In the background, a bright light source, possibly a stage light, is visible through a window or opening in the wall, creating a strong lens flare. The overall atmosphere is dimly lit, with the light from the stage illuminating the scene.

Reflective Wall Panels

Reflective Wall Panels are designed for theaters, auditoriums, and other listening environments that require a fine balance and direction of sound; not just absorption.

Reflective Wall Panels



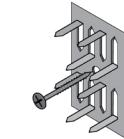
Core construction

Dimensionally-stable 6-7 PCF fiberglass board for acoustic performance. Surface completely adhered with 1/16" solid sheet of copolymer for an acoustically-reflective and high impact-resistant finish.

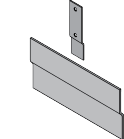
Finish wrapped on all sides



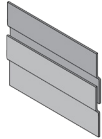
Mounting



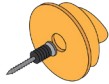
Impaling clips



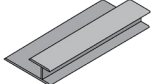
Z-clip to z-bar



Z-bar to z-bar



Rotofast® anchor



Spline

Fabrics brands

See our [Finish Guide](#) for more inspiration.

Carnegie
kvadrat

DESIGNTEX
Knoll

maharam
Guilford of Maine

Paint

Any color imaginable from Sherwin Williams.



NRC average & max sizes

- NAF core
- Standard core

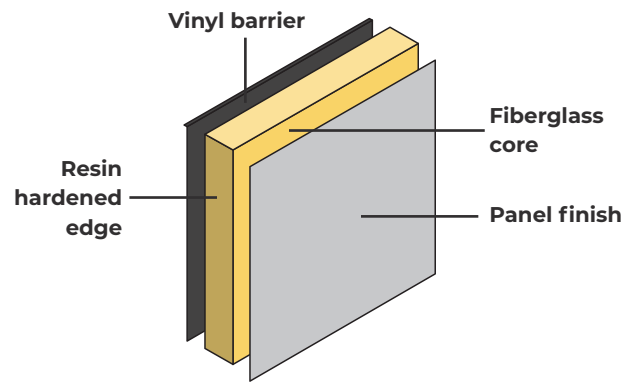
NRC ↓	Thickness	4'x10'		4'x12'		5'x10'	
0.20	1 1/16"		◦	•		•	
—	1 1/16"	•					
—	2 1/16"		◦	•		•	



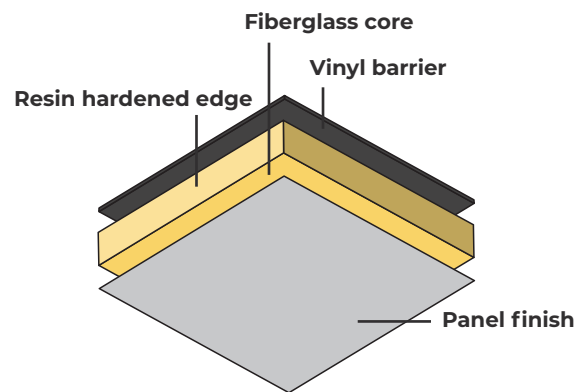
Loaded Vinyl

Loaded Vinyl Panels are designed to block sound from passing through walls while absorbing the ambient noise within a room. Often used for speech privacy in offices, and patient consultation areas, as well as being a general sound barrier for foot traffic or industrial noise.

Loaded Vinyl Wall Panel



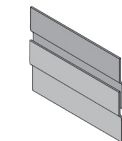
Loaded Vinyl Ceiling Panel



Finish wrapped on all sides



Mounting



Z-bar to z-bar



Fabrics brands

See our [Finish Guide](#) for more inspiration.

Carnegie
kvadrat

DESIGNTEX
Knoll

maharam
Guilford of Maine

Paint

Any color imaginable from Sherwin Williams.

**SHERWIN
WILLIAMS®**

Thicknesses & max sizes

- NAF core
- Standard core

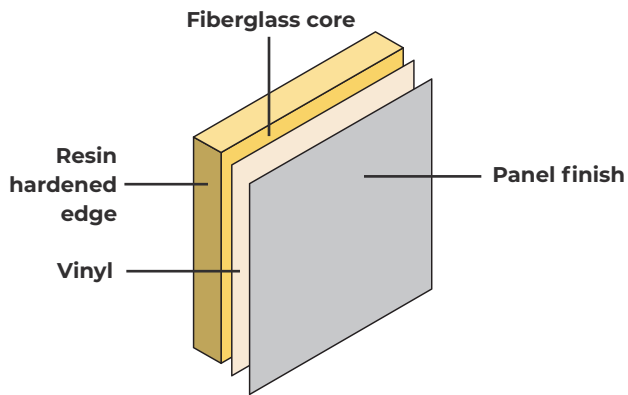
Thickness	4' width		8' length		6' sqft	
1 1/8"	•	◦	•	◦	•	◦
1 5/8"	•		•		•	
2 1/8"	•	◦	•	◦	•	◦

Low Frequency Tuner

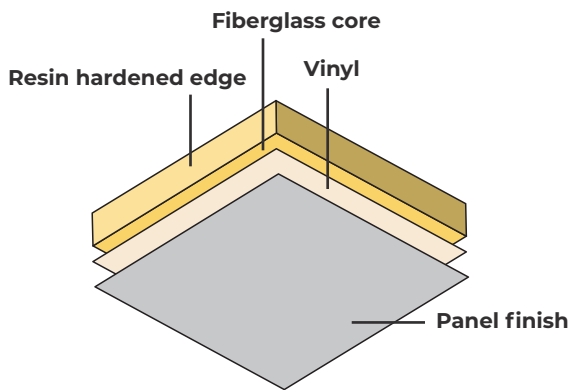
For when your space requires fine-tuned noise absorption, these panels target lower frequencies while maintaining some mid to high frequencies. Perfect for preventing bass traps and excessively thick panels.

We're right here!

Low Frequency Tuner Wall Panel



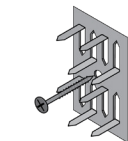
Low Frequency Tuner Ceiling Panel



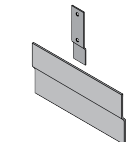
Finish wrapped on all sides



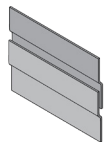
Mounting



Impaling clips



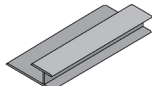
Z-clip to z-bar



Z-bar to z-bar



Rotofast® anchor



Spline

Fabrics brands

Carnegie
kvadrat

DESIGNTEX
Knoll

maharam
Guilford of Maine

See our [Finish Guide](#) for more inspiration.

Paint

Any color imaginable from Sherwin Williams.

**SHERWIN
WILLIAMS®**

NRC average & max sizes

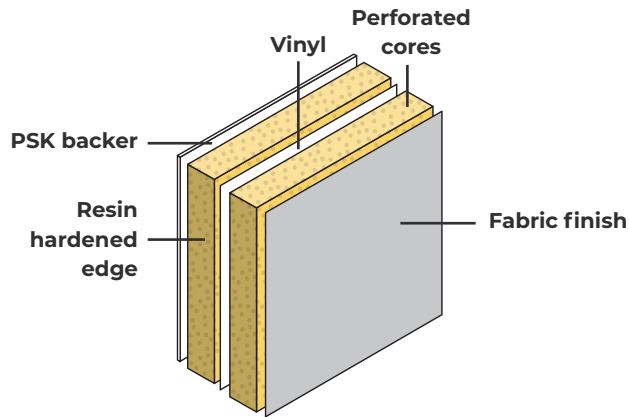
NRC ↓	Thickness	4'x12'	5'x10'
0.30	2"	•	•

Omniplane Diffuser

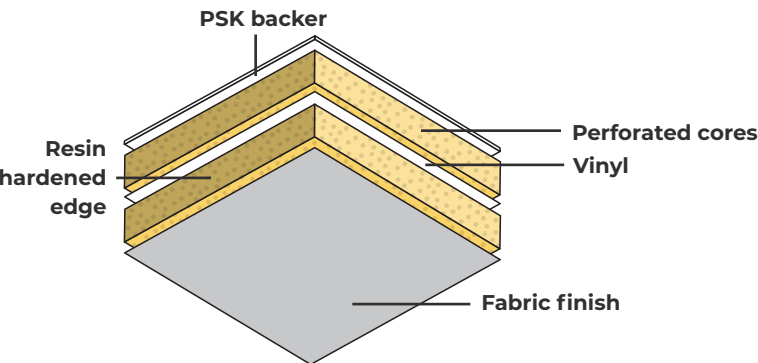
Omniplane Diffuser Panels combine absorption and diffusion into a single product while appearing like any other fabric panel in your project.



Omniplane Diffuser Wall Panel



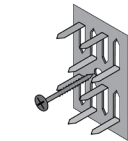
Omniplane Diffuser Ceiling Panel



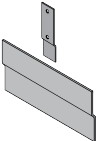
Finish wrapped on all sides



Mounting



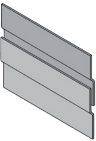
Impaling clips



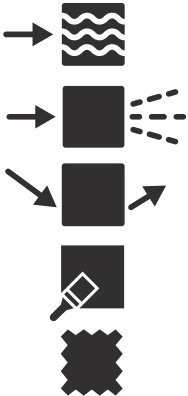
Z-clip to z-bar



Rotofast® anchor



Z-bar to z-bar



Fabrics brands

See our [Finish Guide](#) for more inspiration.

Carnegie
kvadrat

DESIGNTEX
Knoll

maharam
Guilford of Maine

Paint

Any color imaginable from Sherwin Williams.

**SHERWIN
WILLIAMS®**

NRC average & max sizes

2' increments only.

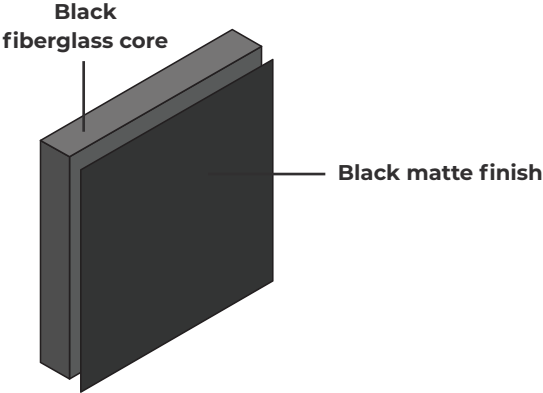
NRC ↓	Thickness	Ceiling		Wall	
		2'x2'	2'x4'	2'x2' min	4'x8' max
0.65	1"	✓	✓	✓	✓
1.05	2"	✓	✓	✓	✓



SelectSound

This product is engineered for high acoustic performance while being incredibly discrete. Fill large spaces or gaps between beams with this matte black, sound-absorbing fiberglass composite.

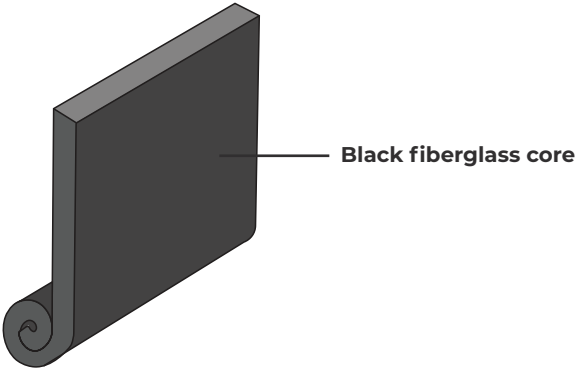
SelectSound Board



NRC average & max sizes
Only sold in whole packs.

	NRC ↓	Thickness	72"x70'	48"x50'	48"x96"
Blanket	0.70	1"	•		
	0.95	2"	•	•	
Board	0.70	1"			•
	1.00	2"			•

SelectSound Blanket



Mounting

SelectSound Board and Blanket can be installed directly to a surface by being trimmed to fit, and held in place using screws. If fitting between beams or coffer, simply trim the material to size.



*Contagious Care
Proactive Partnerships
Together is Better
Excellence and Urgency
Innovation*

