

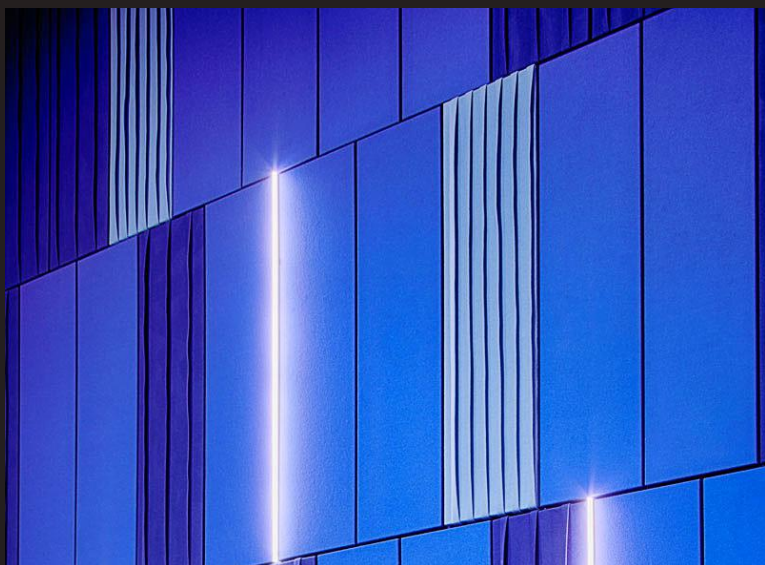
# Absorption Plus®

*The Look That Sounds Different*



*Engineered to Reduce Noise and Enhance the Environment*

*A combination of smooth and custom pleated panels are highlighted by integrated vertical linear lighting.*



“Your Absorption Plus® sound panels have made our job so much easier by keeping the quality at a high standard. Since changing over to your product we have not had any job complaints and that saves us time and money. The only questions we have is how do you build those panels in the time frame we give you! Keep up the good work!”

“Everything looks and sounds great. I’ll be interested to hear what the Sunday School class thinks - we will hear about it on Monday. - but today, everyone was very impressed. Thanks for the great job.”

*Multi Level Cloud Panels provide enhanced acoustics and visual interest for performance space*



“We have used Absorption Plus® panels for countless projects and we know that we can always count on their quality and effectiveness. They are perfect for solving noise problems in churches, school, offices, and numerous other places. You won’t find a better product for the price anywhere.”

*We work closely with architects, acoustical consultants, interior designers and contractors to build products that are both functional and aesthetically pleasing.*





*Absorption Plus<sup>®</sup> is manufactured in a variety of multi-purpose acoustical wall and ceiling treatments to meet the acoustical needs of virtually any space including: schools, theaters, meeting rooms, offices, sound studios, restaurants, etc. Our approach is simple. We custom manufacture each product for size, thickness, acoustical properties, and the desired look.*

## **Absorption Plus<sup>®</sup> Acoustical Wall, Ceiling and Deck Panels**

Absorption Plus<sup>®</sup> panels are designed to reduce reverberation and enhance a room's acoustical properties. Constructed of high quality fiberglass substrate and face laminated fabric, Absorption Plus<sup>®</sup> panels provide the ultimate in performance with excellent NRC ratings. Combining form and function, they are ideally suited for a variety of interior design applications. Absorption Plus<sup>®</sup> panels can be applied to existing walls including block and gypsum walls, metal cabinetry or ceiling to absorb reflected sound. They can also double as tack boards and provide a decorative room accent. Absorption Plus<sup>®</sup> panels are available in a high-impact construction for areas where physical contact may occur.

Each panel is face laminated in the fabric of your choice and available in custom sizes up to 48" x 120" with variety of fabrics including custom, designer or C.O.M. Standard thickness are 3/4" to 3" with custom thicknesses available.

### **Custom Sizing**

Panels can be sized to project dimensional requirements to reduce installation costs. They are built to your design specification - size, thickness, edge and corner details, core fabric selection and attachment method are all custom.

### **Fast Turnaround**

Manufacturing custom panels typically in 2-4 weeks. An exceptional turnaround time compared to the industry norm of 6-8 weeks.

### **Easy Installation**

Our acoustical panels can be hung like pictures. Just match the wall elevation codes on the panel and drawing.



# Standard Options

## Edge Treatments

Chemically Hardened  
Non-Chemically Hardened

## Corner Details

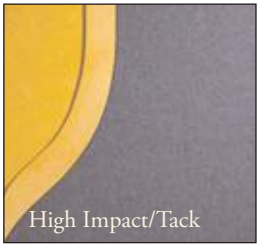
Square  
Radius  
Angled  
Multi-Radius

*Wall, Deck and Cloud Panels* are constructed with a 6-7 # pcf. density semi-rigid fiberglass core with optional chemically hardened edges.

*Ultra High Impact Panels* are constructed with a 6-7 # pcf. density semi-rigid fiberglass core laminated to a plastic or aluminum perforated facer.



Tackable  
1/2", 5/8", 3/4" Core  
(Privacy Guard)



High Impact/Tack  
7/8"-2 1/8" semi-rigid fiberglass with  
1/8" molded fiberglass overlay



Absorption Plus  
3/4"-2" semi-rigid fiberglass



Absorption Plus  
w/ Glass Mat  
3/4"-2" fiberglass core with  
fiberglass mat overlay



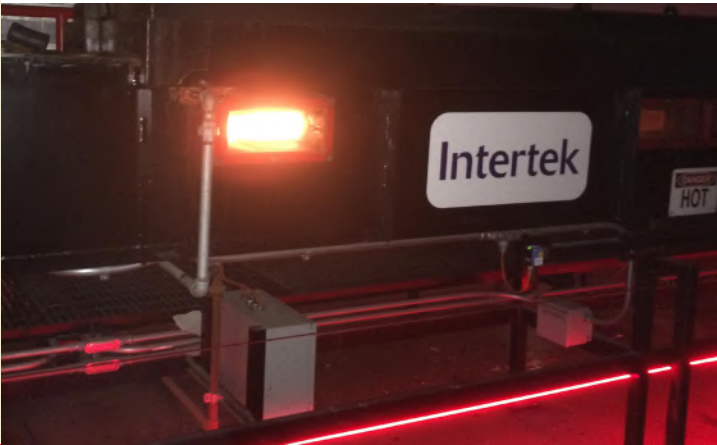
## Absorption Plus® Performance

Absorption Plus® Standard and High Impact wall, ceiling, deck and baffle composite panels meet ASTM E84-**Class A** standards.

Wall, Ceiling and Deck Noise Reduction Coefficient NRC per ASTM C423, Type A mounting.

STANDARD		HIGH IMPACT/TACK	
Thickness	NRC	Thickness	NRC
1"	.80	1 1/8"	.85
1 - 1 1/2"	.95	2 1/8"	.95
2"	1.05		

See Educational Presentation "Why Manufactured Acoustic Data Can Vary" at [www.spi-co.com](http://www.spi-co.com)



## Edge Details

*Absorption Plus® offers a variety of edge details to accentuate our*

### Square Edge

This treatment is the most common of all and can be incorporated into many existing settings.

### Radius

This treatment is also used to draw attention to a desired area with a little softer touch. The radius will be a 3/4" radius cut along the edge of the panel.



# Mounting Options

Mounting Absorption Plus® panels is a simple operation using adhesive, hook and loop fasteners, impaling clips or 2-part Z-Clips.



**Adhesive.** Apply construction adhesive to the back of each panel. Place panel in desired location. Temporary support is required.



**Hook and Loop Fasteners.** The panel comes with the loop fastener already applied and the hook attached to its mate (the loop). To install, remove the tape backing on the hook and position the panel on the wall.



**Impaling Clips.** Mount impaling clips to the wall. Then push the panels onto the impaling clips. Use adhesive for additional support.



**Z-Clips.** Clips are already mounted onto the panels at the time of shipment. Install clips on the wall at the location established by the position of the panel clips.



**Concealed Splines.** Panels with concealed spline attachments have kerfs along the edges of the panels. Insert the spline into one panel and mount on the wall. Then insert adjoining panels into the remaining half of the panel clips.

(Reference standard installation drawings.)

## Finishes

Guilford of Maine (Interface Fabrics) polyester fabric is standard. We also offer designer fabrics from a variety of manufacturers. Customers may also specify or supply their own fabrics (COM).

# Tack Board



## Sizes

Standard up to 48" x 120" with custom sizes and shapes available.

## Core

Mineral fiber board.

## Mounting

2-Part Z-clips or Hook & Loop.

## Finish

Guilford of Maine FR 701 fabric.

Style 2100 is standard.

Designer and customer specified fabrics are also available.

## Edge Details

Square Bevel

Radius Chamfer

## Available Thicknesses

1/2", 3/4"

## Fire Rating

All components have a Class A fire rating per ASTM E-84, per manufacturer of core materials.

*design and allow for customization.*

### Chamfer

This treatment is used to give the shadow look for depth to an area. The chamfer cut will be 1/2" down the side and 1-1/4" into the face.

### Bevel

This treatment is used to accent a sight level or area. The bevel is a 45 degree cut that is a 1/2" in and a 1/2" down on the material.



## Absorption Plus® Cloud



Clouds are a very effective treatment for the reduction of sound in ceiling areas. They are suspended horizontally with eye hooks or T-grid attachment mounted to the cloud at the time of shipment.

(Option to ceiling or deck application.)

### Sizes

Up to 48" x 120" with custom sizes and shapes available.

### Core

6-7 pcf rigid fiberglass with or without chemically hardened edges.

### Mounting

Eye hooks or T-grid.

**Finish:** Guilford of Maine (Interface Fabrics) polyester fabric.

Style 2100 is standard.

Designer and customer specified fabrics are also available.

### Edge Details

Square Bevel

Radius Chamfer

### Acoustical Performance

Noise Reduction Coefficient (NRC)

Thickness	NRC range
1"	.80
1-1/2"	.95
2"	1.05

### Fire Rating

Composite panel Class A rating per ASTM E-84.

## Absorption Plus® Baffles

Ceiling suspended, acoustically absorbent panels are the best way to solve reverberation problems in large open areas where additional sound control is required. Our **Class A fire-rated**, lightweight ceiling baffles allow you to create unlimited architectural effects that improve both the sound quality and the aesthetics of the space, resulting in an ideal acoustical environment. They are ideal for gymnasiums, auditoriums, or cafeterias. Ceiling cable installation allows baffles to be arranged in numerous patterns.



### Physical Properties

**Core:** 6-7# pcf fiberglass (optional 3 pcf fiberglass)

**Dimensions:** up to 48" x 120"

**Thickness:** 1", 1- 1/2", 2"

**Fire Rating:** Composite Panel Class A per ASTM E-84

**Finish:** Guilford of Maine (Interface Fabrics) polyester fabric Style 2100 is standard. Designer and customer specified fabrics are also available.

**Edge Details:** Square, Radius, Bevel and Chamfer

Acoustical Data (ASTM C423-09a, Type J Mounting per ASTM E 795-05)

Finish	Panel	Thickness	125	250	500	1000	2000	4000	NRC	SAA
* Fabric	2" (50 mm)	0.18	0.57	1.16	1.50	1.33	1.31	N/A	N/A	N/A

\* Acoustic Testing performed on panels finished with acoustically transparent fabric.

## Acoustical Mounting Hardware

Suspension Cable - Cable Grips - Cable End Fixing - Decorator Covers - Clips, Pins & Hooks



## Imagine Panels



Imagine wood plank panels provide the rich look of wood while providing excellent acoustics and thermal energy savings.

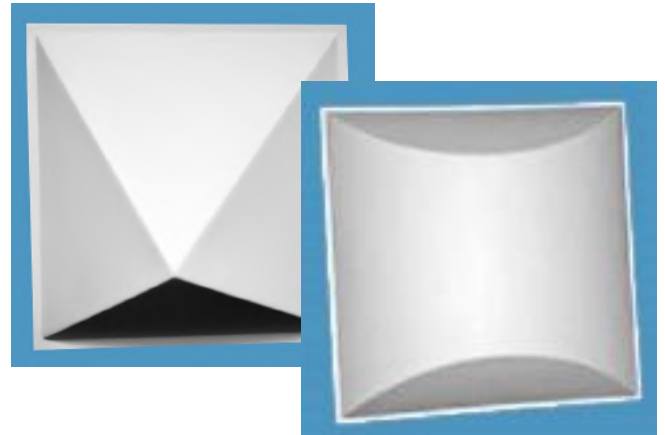
Imagine acoustical panels allow total design flexibility with high resolution images for acoustical wall, ceiling, cloud, baffle and tack panels.



Imagine panel visual options are endless and can include: wood, stone, brick, tile, marble, nature scene, logo, portrait, etc. Digital imaging is available on all Absorption Plus® products. See specific panel type for performance data.



## Diffuser Panels



Absorption Plus® diffusers are typically used in performance areas, auditoriums and other space to enhance acoustic performance. Diffuser panels scatter and blend sound across a broad frequency spectrum for an improved listening experience. Pyramidal and barrel diffusers are available in a variety for sizes to suit virtually any wall or ceiling application requirement.

The white lightly textured surface provides a pleasing finished appearance. Diffusers are also available fabric wrapped to suit virtually any project requirement.

### Performance Data:

**Components tested per ASTM E84** - Class 1/A rating

**Sound Absorption Coefficients**, per ASTM C423, Type D5 mounting (5mm airspace)

4' x 4' Pyramidal diffuser (standard texture finish),  
NRC = .10

4' x 4' Barrel diffuser (standard texture finish,  
NRC = .10  
(Additional data available for fabric wrapped and insulation lined diffusers)

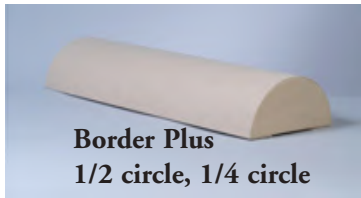
**Optional facings:** include 100% polyester fabric such as Guilford of Maine FR701 and other leading manufacturers. Imagine digital imaged fabric is also available for diffuser panel fabric wrapping.



## The Look That Sounds Different

### Absorption Plus® Custom Shapes:

From geometric shapes to free form designs we provide custom fabricated panels to meet your project requirements.



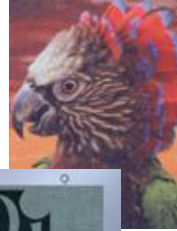
Sconces



Imagine  
Digital  
Imaged



Custom Absorption  
Baffles



Absorption Cylinders



### Fire Performance - “Component VS Composite”

Good acoustics is important for effective space functionality, however panel fire performance can be critical to life safety. The use of Class A qualified component materials is a start but the true measure of an interior acoustical panels is composite panel fire performance. Absorption Plus® composite Wall, Ceiling/Deck, Cloud, Baffle and High Impact panels with standard fabric facing achieve a Class A fire rating per ASTM E-84 tests conducted by a nationally accredited laboratory. See Educational presentation “Fire and Code Compliance for Fabric Wrapped Acoustic Panels” at [www.spi-co.com](http://www.spi-co.com).





## **Sustainable / LEED Support:**

Absorption Plus® panels are produced using fiberglass core board with 50% Post-Consumer recycled content and 0% VOC content as a solid material after manufacturing. LEED 3.0 MR Credit 4 should be applicable for recycled content. LEED 3.0 MR Credit 5 for harvested location is dependent on the project location. Absorption Plus® wall and ceiling panels may also qualify for LEED credit for energy savings.

Standard panel fabric is 100% post-consumer recycled polyester. Other designer fabric information available on request.

The panel adhesive is water based, low emitting VOC material (compared to the VOC limit allowable under the LEED standard) complying with LEED IEQ Credit 4.1 and 4.2.



## **Additional Support:**

To assist with design, product evaluation, selection, quotation, submittal and installation the following are available.

- Product datasheets for each application report acoustic test results for panels as tested with mounting method for the panel application per ASTM C423 and ASTM E 795.
- Online quote request form provides a fast response for project budgeting and firm project bids.
- Online submittal builder provides a quick response submittal package including product sample(s).
- Specification (editable) for each Absorption Plus® acoustical and sound diffuser panel.
- Detailed installation drawings for standard mounting methods and applications.
- Project shop drawing service.
- Standard fabric color chart (other fabrics available)
- Project reference list - Refer to back of page.
- Project case histories.
- Panel cleaning instructions.

**The Absorption Plus® support team is eager to assist with your project needs!**



# Absorption Plus®

## Representative Project References

### Project Name

### Location

Iowa School of Music	Iowa City, IA
Army Reserve Training	Indianapolis, IN
Millersville University Ware Center *	Lancaster, PA
Monseigneur Bruyere School	London, ON
Rick Hansen Public School	Aurora, OH
Ridgland Commons	Chicago, IL
Mt. Moriah	North Charleston, SC
Power House Ministries	Hanahan, SC
University of Central FL*	Orlando, FL
Verizon Woodfield	Schaumburg, IL
University of Nebraska - Lincoln City Campus	Lincoln, NE
St. Paul Academy SPA	St. Paul, MN
College of Charleston - North Campus	North Charleston, SC
Gateway Event Center	Denver, CO
Parshall Elementary School	Fargo, ND
AHEC Library Baffles	Denver, CO
Newark Police Department*	Newark, NJ
Signatur Audio Systems	Wayne, PA
HMCS Hunter	Windsor, On
Clair Brothers	Lititz, PA
United Airlines	Chicago, IL
Ogallaia Elementary School	Ogallaia, NE
St Johns Catholic Church	Lincoln, NE
Halifax HS	Halifax, PA
Black & Veatch World Headquarters	Kansas City, KS
Douglas County Courthouse	Douglas County, SD
Nebraska Conference Center	Lincoln, NE

\*Reference Project Case History





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**SPECIALTY PRODUCTS  
& INSULATION**

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