Acoustic Wall and Ceiling Panels

ACOUSTICS MADE HEALTHY

Eco-Friendly Acoustic Panels

Sorb®
Acoustic Wall and Ceiling Panels

OVERVIEW

OUR COMMITMENT
At FSorb, we are motivated by improving human health and do so by creating eco-friendly acoustic products. Our mission is to help designers build beautiful spaces that reduce excess ambient noise while calming the human nervous system. With over 20 years in the acoustic business we stand behind FSorb as a low-cost, environmentally friendly, and durable product. If you want an acoustic solution that is completely safe to human health at an affordable price, then we are your resource.

OUR PANELS ARE
- Eco-friendly
- Simple to install
- Red List Free - Declare®
- Class A Fire Rated
- Low Cost
- VOC Free
- Stocked 48” x 96” sheets

APPLICATIONS
- Direct applied
- Suspended
- Furred
- Screens
- Baffles
- Lay-in ceiling
- Tack panels

USES
- K-12 & Higher Education
- Office Buildings
- Industrial / Manufacturing
- Government
- Theaters & Studios
- Stadiaums
- Retail Establishments
- Gymnasiums
- Healthcare
- Public Spaces
- Wineries & Breweries
- Natatoriums
- Restaurants
- Traffic Noise

PANEL SPECIFICATIONS*

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Thickness</th>
<th>Noise Reduction Co-Efficient (NRC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8”</td>
<td>0.35</td>
<td></td>
</tr>
<tr>
<td>1/2”</td>
<td>0.50</td>
<td></td>
</tr>
<tr>
<td>1”</td>
<td>0.70</td>
<td></td>
</tr>
<tr>
<td>2”</td>
<td>1.05</td>
<td></td>
</tr>
</tbody>
</table>

* FSorb panels are a standard 48” x 96” and can be cut to fit onsite or ordered in custom shapes and sizes in the colors shown on page 8.
FSorb provided us a healthy acoustic product for our school at an economical price point we could not have received with any other product.

Westside School

When they first opened it was really loud and uncomfortable. After they installed FSorb it changed a lot and we can now talk and understand each other without shouting.

Bottle & Bull Pub Patron

The sequencing of our construction required acoustic panels be installed before chilled beams in the exposed ceiling and before building enclosure. FSorb was moisture resistant, easy to clean, durable, and cheaper than the specified product.

Sellen Construction
ENVIRONMENTAL RESPONSIBILITY

FSorb is an environmentally friendly acoustic product made from thermally bonded recycled polyester plastics. FSorb contains NO adhesives, paints, coatings, VOC’s, formaldehyde, itchy particles, wood, agricultural or paper products.

PUBLICLY DISCLOSED HEALTH PRODUCT DECLARATION
FSorb has a Red List Free - Declare® Label to support HPD’s for LEED and Living Building Challenge projects. They are located on the product section of the website or provided upon request.

PAINTS, COATINGS, ADHESIVES AND SEALANTS
NO paints, coatings, adhesives or sealants are used to manufacture FSorb, it is thermally bonded.

<table>
<thead>
<tr>
<th>Material Name</th>
<th>Polyester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS Number</td>
<td>#68604-67-1</td>
</tr>
<tr>
<td>Proportion</td>
<td>100%</td>
</tr>
<tr>
<td>Contains 0.0 VOC’s</td>
<td></td>
</tr>
</tbody>
</table>

SOURCING OF RAW MATERIALS
The recycled polyester comes from PET plastic pellets which are sourced from a variety of locations near the manufacturer and vary depending on availability.

RECYCLED CONTENT
The recycled content varies depending on the availability of recycled PET pellets. The recycled content range is between 65% – 96% depending on product, color and location of manufacturing.

MANUFACTURING LOCATION
Products are manufactured in one of the following locations:
- Los Angeles, California
- Gyeonggi, Korea

Final assembly for specialty products:
- Redmond, Washington

OTHER ECOLOGICAL INFORMATION
FSorb does not contain any ozone depleting chemicals and is not classified as a hazardous air pollutant.

END OF LIFE CONSIDERATIONS
FSorb products are recyclable at specialized polyester recycling facilities. FSorb is currently involved in creating a product take-back program to create closed-loop recycling for future product lines.
COLORS & MATERIALS

<table>
<thead>
<tr>
<th>PREMIUM COLORS</th>
<th>Custom colors available upon request with minimum order of 2,000 sheets (65,000 sf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIGHT BEIGE</td>
<td>FS-300</td>
</tr>
<tr>
<td>CHESTNUT</td>
<td>FS-810</td>
</tr>
<tr>
<td>RED</td>
<td>FS-360</td>
</tr>
<tr>
<td>ROSE RED</td>
<td>FS-330</td>
</tr>
<tr>
<td>PINK</td>
<td>FS-390</td>
</tr>
<tr>
<td>ORANGE</td>
<td>FS-420</td>
</tr>
<tr>
<td>APRICOT</td>
<td>FS-450</td>
</tr>
<tr>
<td>YELLOW</td>
<td>FS-480</td>
</tr>
<tr>
<td>SKY BLUE</td>
<td>FS-720</td>
</tr>
<tr>
<td>TRUE BLUE</td>
<td>FS-660</td>
</tr>
<tr>
<td>OCEAN BLUE</td>
<td>FS-690</td>
</tr>
<tr>
<td>MIDNIGHT BLUE</td>
<td>FS-630</td>
</tr>
<tr>
<td>DARK PURPLE</td>
<td>FS-750</td>
</tr>
<tr>
<td>PURPLE</td>
<td>FS-780</td>
</tr>
<tr>
<td>SEAFOAM GREEN</td>
<td>FS-600</td>
</tr>
<tr>
<td>MOSS GREEN</td>
<td>FS-570</td>
</tr>
<tr>
<td>GREEN</td>
<td>FS-540</td>
</tr>
<tr>
<td>DARK GREEN</td>
<td>FS-510</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STANDARD COLORS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BLACK</td>
<td>FS-250</td>
</tr>
<tr>
<td>WHITE</td>
<td>FS-100</td>
</tr>
<tr>
<td>TAN</td>
<td>FS-190</td>
</tr>
<tr>
<td>LIGHT GREY</td>
<td>FS-130</td>
</tr>
<tr>
<td>GREY</td>
<td>FS-160</td>
</tr>
<tr>
<td>CHARCOAL</td>
<td>FS-220</td>
</tr>
</tbody>
</table>

MADE FROM RECYCLED PLASTIC

Microbe Resistant
Unlike cotton and acoustic fabrics that can attract moisture that generates mold and mildew

Durable
Easy to wash, and does not ding or break like paper and fiber based products

Long lasting
Ability to absorb sound and still look good for 50 years or more

Safe
No chemicals, or itchy airborne particles for building users to ever deal with

LEED & LBC product Declarations

EXTRUDED POLYESTER

No coatings or adhesives. Our approach is simple as we only use one material. FSorb is extruded, recycled content polyester, shaped and formed with heat.
APPLICATIONS INCLUDE

Tack panels | Spaces requiring minor acoustic correction | Covering exposed structural elements

PANEL SPECIFICATIONS*

<table>
<thead>
<tr>
<th>Thickness</th>
<th>3/8&quot;</th>
</tr>
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<tbody>
<tr>
<td>NRC</td>
<td>0.35</td>
</tr>
<tr>
<td>Size</td>
<td>48” x 96”</td>
</tr>
</tbody>
</table>

*Can be cut to fit onsite or ordered in custom sizes

AVAILABLE COLORS

Light Beige, Chestnut, Red, Rose Red, Pink, Orange
Apricot, Yellow, Sky Blue, True Blue, Ocean Blue, Midnight Blue
Dark Purple, Purple, Seafoam Green, Moss Green, Green, Dark Green
Black, White, Tan, Light Grey, Grey, Charcoal

USAGE

Most commonly selected for tackable surfaces as a lower cost solution replacing cork and fabric wrapped panels. Ideal for:
- Schools
- Universities
- Offices
APPLICATIONS INCLUDE
Custom shapes | Tack panels | Spaces requiring minor acoustic correction | Stretch fabric systems

PANEL SPECIFICATIONS*

<table>
<thead>
<tr>
<th>Thickness</th>
<th>1/2”</th>
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</thead>
<tbody>
<tr>
<td>NRC</td>
<td>0.50</td>
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<td>Size</td>
<td>48’ × 96”</td>
</tr>
</tbody>
</table>

*Can be cut to fit onsite or ordered in custom sizes

USAGE
Ideal for creating custom shapes, cutouts, and unique architectural forms. Also a great tackable surface and lower cost solution than fabric wrapped panels. Ideal for:
• Offices
• Universities
• Retail

AVAILABLE COLORS
Light Beige, Chestnut, Red, Rose Red, Pink, Orange Apricot, Yellow, Sky Blue, True Blue, Ocean Blue, Midnight Blue, Dark Purple, Purple, Seaford Green, Moss Green, Green, Dark Green, Black, White, Tan, Light Grey, Grey, Charcoal
APPLICATIONS INCLUDE
Spaces requiring acoustic correction | Exposed concrete or metal deck ceilings | Walls or suspended baffles | Stretch fabric systems | Most any application

PANEL SPECIFICATIONS*

| Thickness | 1" |
| NRC      | 0.70 |
| Size     | 48” × 96” |

*Can be cut to fit onsite or ordered in custom sizes

USAGE
As the most commonly specified product, the 1” has a high NRC to thickness ratio with a low price point. It is ideal for absorbing voice ranges.

• Industrial / Manufacturing
• Gymnasiums
• Natatoriums
• Offices
• Schools
• Universities
• Restaurants
• Retail Spaces

PREMIUM COLORS
Light Beige, Chestnut, Red, Rose Red, Pink, Orange Apricot, Yellow, Sky Blue, True Blue, Ocean Blue, Midnight Blue, Dark Purple, Purple, Seafoam Green, Moss Green, Green, Dark Green, Black, White, Tan, Light Grey, Grey, Charcoal

STANDARD COLORS
Black, White, Tan, Light Grey, Grey, Charcoal

*Call us for leadtime on Premium Colors (they typically ship within 8-10 weeks).

*Standard Colors typically ship within 3-5 business days.

*Certain colors may require lighter backing color to meet Class A Fire Rating.
**APPLICATIONS INCLUDE**
Spaces requiring serious acoustic correction | Exposed concrete or metal deck ceilings | Walls or suspended baffles

**PANEL SPECIFICATIONS***

<table>
<thead>
<tr>
<th>Thickness</th>
<th>2”</th>
</tr>
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<tbody>
<tr>
<td>NRC</td>
<td>1.05</td>
</tr>
<tr>
<td>Size</td>
<td>48” × 96”</td>
</tr>
</tbody>
</table>

*Can be cut to fit onsite or ordered in custom sizes

**USAGE**
The highest NRC of the FSorb product line, the 2” is often used for baffles, and unique sound absorption requirements.

- Auditoriums
- Office
- Sound Rooms
- Natatoriums
- Gymnasiums

**PREMIUM COLORS**
- Light Beige, Chestnut, Red, Rose Red, Pink, Orange
- Apricot, Yellow, Sky Blue, True Blue, Ocean Blue, Midnight Blue
- Dark Purple, Purple, Seashore Green, Moss Green, Green, Dark Green
- Black, White, Tan, Light Grey, Grey, Charcoal

*Call us for lead time on Premium Colors (they typically ship within 8-10 weeks).

**STANDARD COLORS**
- Black, White, Tan, Light Grey, Grey, Charcoal

*Standard Colors typically ship within 3-5 business days.

*Certain colors may require lighter backing color to meet Class A Fire Rating.
CUSTOM SHAPING

You are the design genius and we are the expert manufacturer. Together there is unlimited potential. Our custom shapes division is able to create unique elements to address acoustic issues in a beautiful and creative way. We can work from a sketch, photo, or CAD drawing to build what you have imagined. Our goal is to give you the ultimate freedom in designing with FSorb materials. Whether it be a unique bevel, a custom cut shape, patterns cut out of a pane, or a 3D element with an integrated light fixture, we like creating new things with you.

Acoustic elements increase the extent to which sound waves hitting them are absorbed, in order to reduce their intensity and echo. FSorb is an easy material to cut and sculpt into shapes that re-define space while absorbing sounds that otherwise impact the nervous system. Please contact us at info@fsorb.com for support with your design and/or an estimate.

At FSorb, we can cut anything. Give us a call and we’ll make it happen.
COMMON QUESTIONS

Does FSorb create custom colors and printing?
Creating custom colors is possible if the project is over 25,000 square feet and if there is a 16–18 week lead time to do so. We can easily print on the surface of FSorb.

Which panel thickness is best for my project?
The 1” thick FSorb panels are most commonly specified for spaces requiring acoustic treatment. Spaces with extreme sound issues and/or limited installation space may benefit from the 2” thick FSorb panels. Our 3/8” and 1/2” thick FSorb panels work well when a 1” or 2” panel is too thick for applications in tight areas.

What kind of adhesive do I use to direct apply FSorb?
We recommend using an acoustic tile adhesive or general purpose construction adhesive on clean, dry surfaces with no moisture or peeling paint.

Can FSorb panels be glued to concrete?
It is not recommended that FSorb be glued to painted concrete or to new concrete without moisture testing that meets adhesive manufacturer requirements. Additional prep to the concrete surface may be required.

Which FSorb Panels are used for tackable surfaces?
All FSorb products have a surface that can be used for push pins. The 3/8” is designed specifically for high use tackable panels.

Will Noise Reduction Coefficient (NRC) vary from surface mounted to suspended?
Yes. A suspended installation will increase the NRC rating by 20% over a surface mount installation.
Additional information available to help support a successful installation

**PRODUCT INSTALLATION**

FSorb can be cut with a straight edge and a sharp utility knife, insulation knife, table saw or otherwise.

FSorb can be installed directly to a surface with the use of low VOC adhesives, mechanical clips, waferhead tek screws, staples or “buttons.”

FSorb can be used as an acoustical core in stretched fabric systems. Mechanically fasten the core to the substrate. Low VOC adhesives may additionally be used. The high density face is installed outwards to the surface of the application. Fabrics can then be stretched over the FSorb core.

FSorb can be furred off the wall or ceiling with the use of a hat channel or similar to create a one inch air space behind it and increase NRC value.

FSorb can be installed into ceiling suspension systems in sizes up to 48” x 96”.

FSorb recommends a minimum of 24” attachment points for suspended FSorb panels. Fasteners direct to a surface can also be spaced every 24”. Inset fasteners no more than 8” from the panel edges. Do not exceed 24” between fasteners for installations direct to wall or ceiling.

FSorb can be cleaned and maintained as follows: brush off, blow off with compressed air, clean by using a dry cleaning sponge, damp white cloth or similar. Heavy soiling or stains may require a cleaner similar to Resolve Carpet Cleaner or Spot Shot which should be used as directed. Heavily damaged panels should be replaced.