SOUNDSOAK® Baffles

Acoustical Absorbers

Inspiring Great Spaces™

Armstrong®

CEILING & WALL SYSTEMS

SOUNDSOAK® Baffles

Acoustical Absorbers

Soundsoak® Baffles 24" x 48" with Eye Hooks and Square Edges in FR-701® Silver Papier, Blue Plum, and Deep Burgundy fabrics; Custom Soundsoak Walls in Silver Papier

This easy-to-install acoustical option with a Bioacoustic™ core is available in a variety of standard fabrics.

KEY SELECTION ATTRIBUTES

- Soundsoak® Baffle with BioAcoustic core has a 44% rapidly renewable substrate made from jute, a plant that grows from seed to harvest in 100 days, and can contribute to LEED® credits (Rapidly Renewable and Acoustics)
- 100% post-consumer woven fabrics coordinate with Soundsoak® Walls and Diffusers
- On average, one baffle per 40 square feet, or 20% coverage, reduces reverberation time by approximately 50%
- Seismic tested
- Easy to install with sleek, adjustable aircraft cable hanging kit

Visit Armstrong.com Photo Gallery to view more installation photos
SEARCH: soundsoak baffles

WOVEN FABRIC – BioAcoustic™ & Fiberglass Cores


Silver Papier (SP)


Bone (BO)


Quartz (QZ)

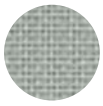

Opal (OP)


Wheat (WE)


Straw (ST)

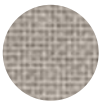

Terra (TR)


Leaf (LE)

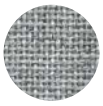

Eucalyptus (EU)

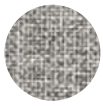

Cherry Neutral (CN)

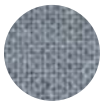

Silver Neutral (SN)

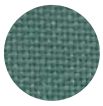

Cement Mix (CM)


Blue Neutral (BN)


Blue Papier (BR)


Grey Mix (GM)


Crystal Blue (CB)


Blue Spruce (BS)

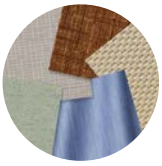

Violet (VI)


Ultramarine (UM)


Deep Burgundy (DB)


Blue Plum (BE)


Black (BL)


Custom Fabrics Available

SAILCLOTH FABRIC – Fiberglass Core Only

White (SCWE)


Silver (SCSR)

Yellow (SCYW)


Red (SCRD)


Royal (SCRL)


Maroon (SCMN)


Navy (SCNY)


Black (SCBK)


Custom Fabrics Available

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ACOUSTICAL PERFORMANCE

EXPOSED STRUCTURE VS. PARTIAL COVERAGE WITH SOUNDSOAK BAFFLES

CEILING	None Exposed Structure	Exposed Structure with 80% Acoustical Deck Treatment*	20% Soundsoak Fiberglass Baffles Item 6607 (125 - 2' x 4')	20% Soundsoak BioAcoustic™ Baffles Item 6606 (125 - 2' x 4')	50% Soundsoak Fiberglass Baffles Item 6607 (312 - 2' x 4')	50% Soundsoak BioAcoustic Baffles Item 6606 (312 - 2' x 4')	Optima Ceiling Continuous 10' H
Reverberation time(s)	3.4s	2.26s	1.20s	1.67s	0.61s	0.95s	0.49
RT reduction (%)	–	34%	65%	51%	82%	72%	86%
SPL reduction (dB)	–	1.1dB	3.1dB	2.3dB	5.6dB	4.3dB	6.3dB

* Acoustical deck treatment is 1.5" thick with an NRC of 0.55.

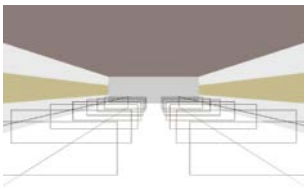
SOUND ABSORPTION IN SABIN

The Sabin is the unit of total sound absorption provided by an object. This is the preferred metric for "space absorbers" such as clouds, canopies, or baffles installed within an architectural space.

Soundsoak® Baffles provide greater sound absorption than a continuous ceiling of the same surface area because the sound is absorbed from both the front and back surfaces.

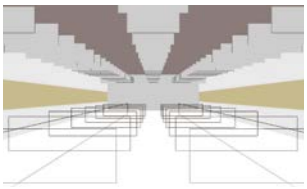
The installation of Soundsoak Baffles in a reverberant space can significantly reduce the background noise and reverberation time, enhancing speech intelligibility.

EXPOSED STRUCTURE



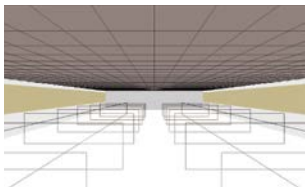
5000 SF Exposed Structure
(50' x 100') Space

125 SOUNDSOAK BAFFLES



Ceiling Height: 15' to Deck

FULL OPTIMA® CEILING



Drywall Walls, with windows on
2 sides, and commercial carpet

CASE STUDY

Project: Martin Luther King Elementary School
Location: Lancaster, PA
Product: Soundsoak Baffles and Walls

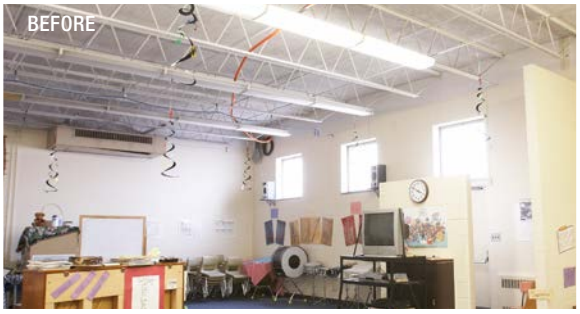
Problem: Classroom suffered acoustically from both high reverberation time and high levels of background noise.

Situation: Exposed structure, cinderblock walls, carpeted floors.

Solution: Installation of fabric-covered Soundsoak Baffles and Walls reduced reverberation time in the space by 27% to 0.56 seconds, which meets the ANSI S12.60-2010 Classroom Standard.

- 16 Soundsoak Baffles
- 96 square feet of Soundsoak wall panels installed five feet from the roof deck on the back and side walls

For more information, visit armstrong.com/baffles.



Soundsoak Baffles 2' x 4' in FR-701 fabrics; Custom Soundsoak Walls 3.5' x 3.5' with Mineral Fiber substrate and Square Edge in FR-701 Silver Papier fabric.

SOUNDSOAK® Baffles

Acoustical Absorbers

50% RECYCLED CONTENT

Calculate LEED contribution at armstrong.com/greengenie

LEED®

energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/ extended producer resp.	biobased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting/ materials	lighting quality	acoustics
		✓	✓				✓	✓				✓

▲ LOCATION DEPENDENT

VISUAL SELECTION

PERFORMANCE

Item Number◆	Description	Dimensions Nominal W x L x H (Inches) Custom Sizes Available	Mounting	Sabins/ Panel	Fire Rating
SOUNDSOAK Baffles					Composite
6605 _ _	Fabric-wrapped Square Edge with **Fiberglass core**	24" x 48" x 2"	Eye Hooks	14.5	Class A
6606 _ _	Fabric-wrapped Square Edge with **BioAcoustic™ core**	24" x 47-1/2" x 1-1/4"	Grommets	9.2	Class A
6607_ _ _ _	Sailcloth Nylon Stitched Sealed Edge with **Fiberglass core**	24" x 48" x 1-1/2"	Grommets	9.5	Class A

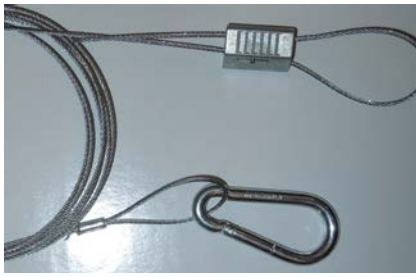
◆ When specifying or ordering, include 2- or 4-letter color suffix.

ACCESSORIES

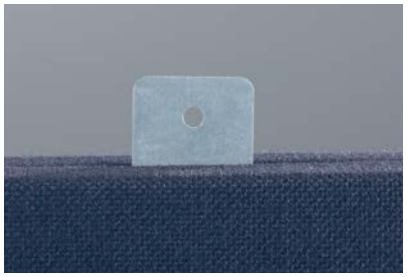
Item Number◆	Description	Dimensions Nominal W x L x H
5670	Baffle Hanging Kit (2 cables, 2 carabiners, and 2 adjusters)	1/16" x 96" (cable)

INSTALLATION OPTIONS

Hanging Kit



Eye Hook Mounting



Grommet Mounting

CUSTOM SOUNDSOAK BAFFLES

- Edge detail (square, beveled, radiused, mitered, stitched)
- Sizes up to 48" x 96" for fiberglass core; for custom BioAcoustic panels, contact the Architectural Specialties project management team at 1 877 ARMSTRONG, select options 1-1-4
- Thickness 1" to 2"
- Customer-specific fabrics can be considered from manufacturers like:
  - Guilford of Maine™: www.guilfordofmaine.com
  - Maharam®: www.maharam.com
  - Designtex®: www.designtex.com
  - Carnegie: www.carnegiefabrics.com
  - Knoll®: www.knolltextiles.com
  - Hytex®: www.hytex.com

Use our online Custom Selection Form at armstrong.com/baffles, and we will create baffles to your specifications.

Hytex is a trademark of Hytex Industries. Guilford of Maine and FR-701® are registered trademarks of Guilford of Maine. Maharam is a registered Maharam Fabric Corporation. Designtex is a registered trademark of Steelcase Corporation. Knoll is a registered trademark of Knoll, Inc.

COLORS AND PERFORATIONS

(Custom colors and perforations available.)

Woven Fabric

Silver Papier (SP)
Bone (BO)
Quartz (QZ)
Opal (OP)
Wheat (WE)
Straw (ST)
Terra (TR)
Leaf (LE)
Eucalyptus (EU)
Cherry Neutral (CN)
Silver Neutral (SN)
Cement Mix (CM)
Blue Neutral (BN)
Blue Papier (BR)
Grey Mix (GM)
Crystal Blue (CB)
Blue Spruce (BS)
Violet (VI)
Ultramarine (UM)
Deep Burgundy (DB)
Blue Plum (BE)
Black (BL)

SailCloth Fabric

White (SCWE)
Silver (SCSR)
Yellow (SCYW)
Red (SCRD)
Royal (SCRL)
Maroon (SCMN)
Navy (SCNY)
Black (SCBK)

PHYSICAL DATA

Material
Rigid fiberglass core or BioAcoustic core

Surface Finish
Nylon or fabric

Fire Performance
6605 - Tested in accordance with ASTM E84 – 25/200; Composite Class A rating per IBC (fabric, substrate, etc.); Tested to CAN/ULC S102 – 25/250

6606 - Tested in accordance with ASTM E84 – 25/200. Composite Class A rating per IBC (fabric, substrate, etc.)

6607 - Tested in accordance with ASTM E84 – 25/200. Composite Class A rating per IBC (fabric, substrate, etc.)

Soundsoak® Baffles, as with other architectural features located in the ceiling plane, may obstruct or skew the existing or planned fire sprinkler water distribution pattern, or possibly delay the activation of the fire sprinkler or fire detection system. Designers and installers are advised to consult a fire protection engineer, NFPA 13, and their local codes for guidance on the proper installation techniques where fire detection or suppression systems are present.

Acoustical Performance
6605 – 1.8 Sabins per square foot
6606 – 1.14 Sabins per square foot
6607 – 1.19 Sabins per square foot

Installation Consideration
Cutting baffles is not recommended. Do not attach carabiner to BioAcoustic baffle grommet.

Seismic Restraint
Refer to ASCE 7-10, Section 13.5 Architectural Components, for seismic requirements. Section 13.5, item 2 refers to 13.2.3 Consequential Damage.

Warranty
Details at armstrong.com/warranty

Weight/Square Feet
Bulk packaged per order
6605 – 14 lbs. per Baffle
6606 – 7 lbs. per Baffle
6607 – 10 lbs. per Baffle

TechLine℠ / 1 877 ARMSTRONG
armstrong.com/soundsoak
(search: soundsoak baffles)
BPCS-4317-715

Armstrong®