



**SOUND CURTAINS.**  
BY SOUND SEAL



# IN-PLANT NOISE CONTROL





**aegis energy**  
EDF GROUP

**Combined  
Heat + Power**

# ACOUSTICAL SOUND CURTAINS

## QUILTED FIBERGLASS ABSORBERS (QFA)

Sound Seal's Quilted Fiberglass Absorbers are soft, porous, open-celled materials that are used to reduce the reflection of sound waves. As a result, reverberation time and ambient noise levels are reduced thereby improving communication in a variety of applications.

### FEATURES

- Superior sound absorption
- Lightweight & flexible
- Class A flammability rated
- Maximum durability
- Long life span
- Available for custom fabrications

### APPLICATIONS

- Wall panels
- Ceiling baffles
- Banners
- Ceiling clouds

## NOISE BARRIER COMPOSITES

Sound Seal manufactures two types of Noise Barrier Composites — the **Barrier Backed Composite (BBC)** and the **Barrier Septum Composite (BSC)**.

### FEATURES

- Maximum noise reduction by combining sound absorber & noise barrier
- Flexible composites form to any shape
- Fire safe & low smoke emissions per ASTM E-84, Class 1
- Offered in 2 styles and a variety of combinations
- Sound absorption rating up to NRC 1.05
- Transmission loss rating up to STC-32

### APPLICATIONS

- Acoustical liners, jackets & wraps
- Curtain panels
- Bound or un-bound rolls
- Custom fabrications
- Die-cut pieces

### BARRIER BACKED COMPOSITES

Sound Seal's BBC features a reinforced loaded vinyl noise barrier with a quilted fiberglass absorber on one side. The rugged durable exterior barrier is commonly used as a wrap or acoustical jacket due to its ability to form to any shape. The quilted fiberglass layer decouples the noise barrier to enhance its acoustical performance.

### BARRIER SEPTUM COMPOSITES

Sound Seal's BSC features a non-reinforced loaded vinyl noise barrier septum (middle) with a quilted fiberglass sound absorber on both sides. Ideally suited as an acoustical liner, the inner layer of quilted fiberglass decouples the barrier from the surface to improve its noise blocking ability while the outer layer adds sound absorption to the treated environment.



ACOUSTICAL DATA ON BACK COVER







IN-PLANT  
**NOISE ENCLOSURES**

## IN-PLANT NOISE ENCLOSURES

Sound Seal's In-Plant Noise Enclosures, available as complete or partial enclosures, can be floor mounted, ceiling mounted, wall mounted, or suspended from a roof deck. When using a complete four-sided enclosure with a roof, the noise reduction can exceed 20 dB(A) while still offering access, visibility and ventilation.

Partial Noise Enclosures are defined as a barrier wall, two or three sided enclosure, or a four sided enclosure without a roof. Noise reduction can exceed 15 dB(A) on a partial enclosure utilizing our Barrier Backed or Barrier Septum Composites. Standard components are utilized to offer custom enclosures to meet your specific application.

### FEATURES

- Modular panels join together to form any configuration required
- Framing systems available for floor mount, wall mount, ceiling mount or suspended by threaded rod
- Double track systems available for slide by access
- Every panel can be a door
- Clear vinyl windows are available for visibility
- Vent baffles allow air into the enclosure without compromising acoustical performance
- Short lead time even for custom enclosures (expedites available if needed faster)
- Economical alternative to rigid metal acoustical enclosures
- STC ratings up to 36, NRC ratings up to 1.05

### APPLICATIONS

- Compressors
- Pumps
- Generators
- Blowers
- Fans
- Granulators
- Presses
- Manufacturing Equipment
- Machinery Enclosures
- Test Chambers



**SCAN**  
TO WATCH OUR VIDEO!



ACOUSTICAL DATA ON BACK COVER

**OPTIONAL  
WINDOWS**

**DOUBLE  
TRACK  
SYSTEM  
FOR SLIDE-BY  
ACCESS**

**OPTIONAL  
VENT BAFFLES**







PORTABLE  
**ACOUSTIC ENCLOSURES**

## PORTABLE ACOUSTIC ENCLOSURES

Sound Seal's Portable Acoustic Enclosures combine high-performance noise barrier/sound absorption sound curtain panels with a steel tube frame, complete with built in locking casters for easy mobility.

They can be supplied as a partial or complete enclosure around noisy industrial equipment including compressors, pumps, generators and more.

### FEATURES

- Completely mobile with built in locking casters
- Multiple configurations available
- Slip-fit frame construction
- Easy no-tool assembly (Nylon zip ties secure blanket through grommets)
- Customizable with windows & vent baffles
- Able to be completely enclosed with optional roof panel
- Velcro seals to join panels together
- Economical/low installation costs
- Maximum length & width — 8 ft.

### APPLICATIONS

- Partial or complete enclosure
- Ideal for enclosing industrial equipment including:
  - Compressors
  - Pumps
  - Generators



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TO WATCH OUR VIDEO!



ACOUSTICAL DATA ON BACK COVER



**MULTIPLE**  
CONFIGURATIONS



**EASY**  
NO TOOL  
ASSEMBLY



**OPTIONAL**  
VENT BAFFLES





PORTABLE  
**ACOUSTIC SCREENS**



## PORTABLE ACOUSTIC SCREENS

Sound Seal's Portable Acoustic Screens can be used individually or in groups to form partial noise enclosures, offering complete mobility and maximum accessibility. They consist of a rugged powder-coated tubular steel frame combined with our high-performance BBC (Barrier Backed Composite) or BSC (Barrier Septum Composite) noise barrier/sound absorption curtain panels and heavy duty casters.

A series of Portable Acoustic Screens can be joined together to form a sound absorption and noise barrier treatment which can be easily moved and relocated.

### FEATURES

- Standard sizes:
  - BSC-25 Screen 48" x 96" (absorbs & blocks sound)
  - BBC-13 Screen 54" x 96" (absorbs & blocks sound)
  - QFA-10 Screen 48" x 96" (absorbs sound)
- Custom fabricated for any size application
- Complete mobility for maximum accessibility
- Utilizes high-performance acoustical curtain panels
- Collapsible framing allows for cost-effective & quick shipping methods
- Available with or without casters
- Zip ties secure panel through grommets on top & bottom of frame
- Velcro seals join panels together

### APPLICATIONS

- Partial or complete enclosure
- Ideal for enclosing industrial equipment including:
  - Compressors
  - Pumps
  - Generators

**Sound Seal's Portable Acoustic Screens can be used as simply a sound absorber or can be used as both a sound absorber and sound blocker.**



ACOUSTICAL DATA ON BACK COVER



**OPTIONAL**  
ROLLING  
CASTERS



**EASY**  
NO TOOL  
ASSEMBLY





# ACOUSTIC PIPE & DUCT WRAP





## HVAC DUCT LAGGING

Sound Seal's HVAC duct lagging is designed to offer significant reduction of radiated noise from HVAC duct casings. The lagging can be applied to rectangular or round duct and pipe systems.

Industrial Pipe & Duct Wraps are mass loaded noise barriers with a reinforced foil facing on one side that allows for installation of matching lag tape.

Pipe & Duct Wrap Lag is typically used to wrap noisy pipes and ducts to block the noise that transmits through the walls of the pipe or duct as air or other contents move through it. It also provides sound absorption and thermal insulation around the pipe or ductwork. The 2" thick quilted fiberglass absorber improves low frequency acoustical performance.

### FEATURES

- Available with a 1" or 2" quilted fiberglass decoupler
- Standard rolls are 54" wide x 30' long
- Acoustical ratings STC-27 to STC-34
- Available with a 1# or 2# per square foot vinyl noise barrier
- Easy to cut & install
- Accepts matching lag tape
- Class A flammability rated composite
- Roll size 54" x 30'
- Can be used with either rectangular or round ducts

### USED FOR WRAPPING

- Sheet metal ductwork
- Valves
- VAV units
- Heat exchangers
- Fans/blowers
- Iron, steel & PVC piping



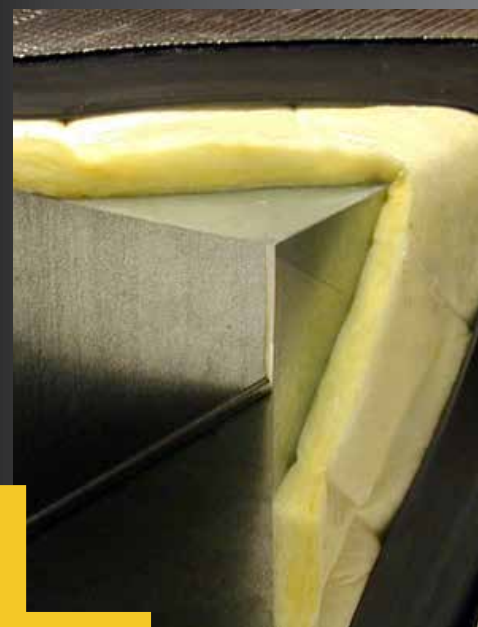
**SCAN**  
TO WATCH OUR VIDEO!



ACOUSTICAL DATA ON BACK COVER



**ROLLS  
MEASURE  
54" x 30'**







# INDUSTRIAL **ACOUSTICAL BAFFLES**



## INDUSTRIAL SOUND Baffles

Sound Seal's Industrial Sound Baffles are used to reduce the reverberation time, lower ambient noise levels and improve communication in a variety of applications. Sound Seal offers several different baffle styles, including **Polywrap Baffles** and **Sanitary Baffles**.

### POLYWRAP Baffles FEATURES

- Quick & easy installation
- Economic polywrapped style
- Effective & economic method of reducing reverberation
- Ambient noise reduction up to 10 dB
- Class A flammability rating per ASTM E-84
- Baffle measures 4' wide x 2' high
- White & black facings available

### SANITARY Baffles FEATURES

- FDA approved/USDA listed
- Washable for hygienic or aesthetic reasons
- Temperature range: -40° F – 200° F
- Rip resistant facing
- Stain resistant
- Durable & chemically resistant

### APPLICATIONS

- Manufacturing facilities
- Industrial plants/warehouses
- OEM applications
- Food processing plants

### ACOUSTICAL DATA

Sound Absorption Octave Band Center Frequencies (Hz)							
Product	125	250	500	1K	2K	4K	Sabins
Polywrap Baffle	2.1	6.5	10.7	14.1	12.7	8.1	<b>11.0</b>
Sanitary Baffle (Type A)	1.15	5.26	8.00	10.9	9.34	5.50	<b>8.40</b>
Sanitary Baffle (Type B)	1.00	8.09	14.65	15.72	12.68	4.93	<b>12.8</b>

Per ASTM C423-90a and C423-81



**POLYWRAP**  
Baffles  
WITH BLACK  
& WHITE FACINGS



**SANITARY**  
Baffles



# FLEXIBLE NOISE BARRIERS

**SOUND SEAL'S FLEXIBLE NOISE BARRIERS** are loaded vinyl barriers that combine mass, flexibility & limpness to block noise from transmitting from one area to another. Available in many different styles, these meet a multitude of applications, including industrial, commercial, residential & OEM applications.

## FLEXIBLE NOISE BARRIERS ARE OFFERED AS

- Non-reinforced barriers
- Reinforced barriers
- Clear vinyl barriers
- Foil-faced lag styles

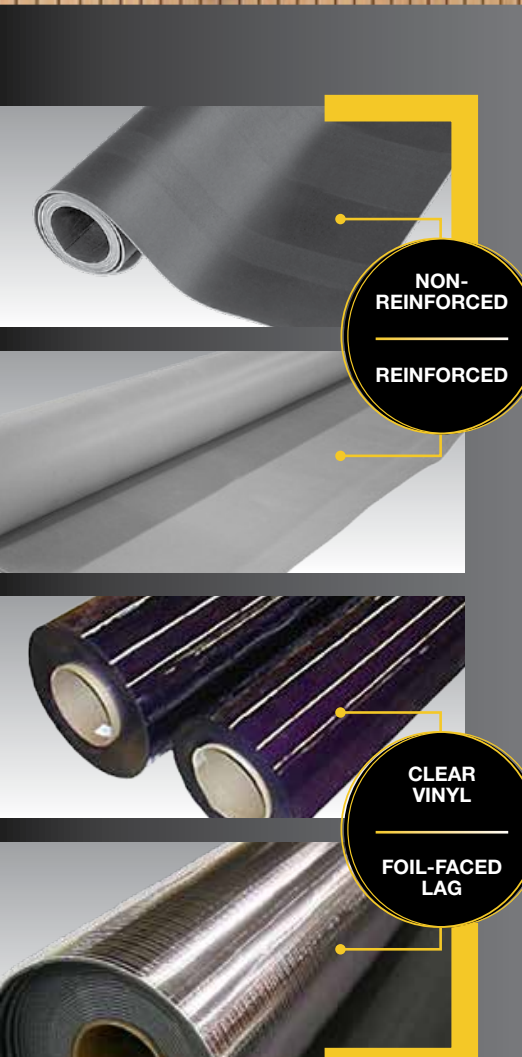
## FEATURES

- Mass loaded barriers from 1/2lb. to 2lbs. per sqft
- Acoustical ratings from STC-20 to STC-31
- Limp, flexible, formable, versatile
- High tear and tensile strength
- Economical

## ACOUSTICAL DATA (visit [www.soundseal.com](http://www.soundseal.com) for additional models & data)

Octave Band Center Frequencies (Hz)							
Product	125	250	500	1K	2K	4K	STC
B-10 (1#)	13	17	22	26	32	37	26
B-20 (2#)	16	22	26	32	35	40	31

Per ASTM E90 & E413



NON-REINFORCED

REINFORCED

CLEAR VINYL

FOIL-FACED LAG



**SOUND SEAL'S CEILING TILE COVERS** reduce common mechanical noise problems by blocking sound transmission through ceiling tile systems. They combine a limp barrier layer with an absorber/decoupler to achieve much greater isolation than would be achieved with a layer of insulation alone.

### COMMON PROBLEMS SOLVED

- HVAC noise from manufacturing side of a building is blocked from transmitting to the office side

### FEATURES

- Standard sizes: 24" x 24" and 24" x 48"
- Optional size to go on the back side of fluorescent light covers
- Easy to install
- Allow access to the plenum area

### ACOUSTICAL DATA (visit [www.soundseal.com](http://www.soundseal.com) for additional models & data)

Octave Band Center Frequencies (Hz)							
Product	125	250	500	1K	2K	4K	STC
NBCTC 1-1	11	16	24	30	35	35	27
Product	125	250	500	1K	2K	4K	NRC
NBCTC 1-1	0.12	0.47	0.85	0.84	0.64	0.62	0.70

Per ASTM E90 & C423



# DROP TILE CEILING COVERS

# ACOUSTICAL PERFORMANCE DATA

## SOUND TRANSMISSION LOSS (dB) per Octave Band Frequencies (HZ)

Sound Seal Model #	125	250	500	1000	2000	4000	STC
QFA-10	6	11	15	20	25	32	19
BBC-13	11	16	24	30	35	35	27
BBC-13-2"	13	20	29	40	50	55	32
BBC-13-2LB-2"	19	25	33	46	53	58	37
BSC-25	12	16	27	40	44	43	29

Per ASTM E 90

## SOUND ABSORPTION DATA Sound Absorption Octave Band Center Frequencies (Hz)

Sound Seal Model #	125	250	500	1000	2000	4000	NRC
QFA-10	0.19	0.99	0.96	0.80	0.57	0.33	0.85
BBC-13	0.12	0.47	0.85	0.84	0.64	0.62	0.70
BBC-13-2"	0.07	0.27	0.96	1.13	1.08	0.99	0.85
BBC-13-2LB-2"	0.07	0.27	0.96	1.13	1.08	0.99	0.85
BSC-25	0.45	0.96	0.87	0.66	0.47	0.30	0.75

Per ASTM C 423

- QFA-10: 2" thick vinyl faced quilted fiberglass absorber  
 BBC-13: 1" thick vinyl faced quilted fiberglass absorber (QFA) bonded to a 1 lb. psf reinforced loaded vinyl noise barrier  
 BBC-13-2": 2" thick vinyl faced quilted fiberglass absorber (QFA) bonded to a 1 lb. psf reinforced loaded vinyl noise barrier  
 BBC-13-2LB-2": 2" thick vinyl faced quilted fiberglass absorber (QFA) bonded to a 2 lb. psf reinforced loaded vinyl noise barrier  
 BSC-25: 1" thick vinyl faced QFA on both sides of a 1 lb. psf loaded vinyl noise barrier septum

Item	Barrier	Absorber/ Decoupler	Typical LAG Application	Nominal Thickness	Weight /Sq Ft	125 Hz TL	STC
B-10LAG	1 lb/sq ft MLV, foil facing 1 side	None	On top of existing insulation	1/8"	1lb/sq ft	15	27
B-10LAG/QFA-3	1 lb/sq ft MLV, foil facing 1 side	1" thick quilted fiberglass	Directly onto pipe/ duct or on top of existing insulation	1"	1.3lb/sq ft	18	29
B-10LAG/QFA-9	1 lb/sq ft MLV, foil facing 1 side	2" thick quilted fiberglass		2"	1.45lb/sq ft	19	30
B-20LAG	2 lb/sq ft MLV, foil facing 1 side	None	On top of existing insulation	3/16"	2lb/sq ft	16	31
B-20LAG/QFA-3	2 lb/sq ft MLV, foil facing 1 side	1" thick quilted fiberglass	Directly onto pipe/ duct or on top of existing insulation	1"	2.2lb/sq ft	20	32
B-20LAG/QFA-9	2 lb/sq ft MLV, foil facing 1 side	2" thick quilted fiberglass		2"	2.45 lb/sq ft	21	34