Appendix H:
Noise Data and Modeling

H.1 - Noise Metering Data

H.1.a - Beamer/Cottonwood Site Noise Metering Data

Date Time=07/23/12 10:57:00
Sampling Time=1
Record Num= 900
Leq Value=49.9   SEL Value=79.4
MAX Value=62.3
MIN Value=41.5
Freq Weighting=A   Time Weighting=Slow
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H.1.b - Grasslands Site Noise Metering Data

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MAX Value=88.5
MIN Value=38.8
Freq Weighting=A   Time Weighting=Slow
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68.2,15:34:57,
68.2,15:34:58,
68.2,15:34:59,
68.2,15:35:00,

H.2 - Noise Modeling

			Roadway Construction Noise Model (RCNM), Version 1.1													
Report date:	8/6/2012															
Case Description:	Beamer Install and Steel Erection															
				---- Receptor #1 ----												
		Baselines (dBA)														
Description	Land Use	Daytime	Evening	Night												
Adjacent residential u	Residential	60	60	60												
				Equipment												
				Spec	Actual	Receptor	Estimated									
		Impact		Lmax	Lmax	Distance	Shielding									
Description		Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)									
Grader		No	40	85		236	0									
Dozer		No	40		81.7	236	0									
Compactor (ground)		No	20		83.2	236	0									
Flat Bed Truck		No	40		74.3	236	0									
				Results												
		Calculated (dBA)			Noise Limits (dBA)							Noise Limit Exceedance (dBA)				
				Day		Evening		Night		Day		Evening		Night		
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Grader		71.5	67.5	N/A	60	N/A	60	N/A	60	N/A	7.5	N/A	7.5	N/A	7.5	
Dozer		68.2	64.2	N/A	60	N/A	60	N/A	60	N/A	4.2	N/A	4.2	N/A	4.2	
Compactor (ground)		69.8	62.8	N/A	60	N/A	60	N/A	60	N/A	2.8	N/A	2.8	N/A	2.8	
Flat Bed Truck		60.8	56.8	N/A	60	N/A	60	N/A	60	N/A	None	N/A	None	N/A	None	
	Total	71.5	70.3	N/A	60	N/A	60	N/A	60	N/A	10.3	N/A	10.3	N/A	10.3	
		*Calculated Lmax is the Loudest value.														
				---- Receptor #2 ----												
		Baselines (dBA)														
Description	Land Use	Daytime	Evening	Night												
Adjacent residential u	Residential	60	60	60												
				Equipment												
				Spec	Actual	Receptor	Estimated									
		Impact		Lmax	Lmax	Distance	Shielding									
Description		Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)									
Grader		No	40	85		273	0									
Dozer		No	40		81.7	273	0									
Compactor (ground)		No	20		83.2	273	0									
Flat Bed Truck		No	40		74.3	273	0									
				Results												
		Calculated (dBA)			Noise Limits (dBA)							Noise Limit Exceedance (dBA)				
				Day		Evening		Night		Day		Evening		Night		
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Grader		70.3	66.3	N/A	60	N/A	60	N/A	60	N/A	6.3	N/A	6.3	N/A	6.3	
Dozer		66.9	62.9	N/A	60	N/A	60	N/A	60	N/A	2.9	N/A	2.9	N/A	2.9	
Compactor (ground)		68.5	61.5	N/A	60	N/A	60	N/A	60	N/A	1.5	N/A	1.5	N/A	1.5	
Flat Bed Truck		59.5	55.5	N/A	60	N/A	60	N/A	60	N/A	None	N/A	None	N/A	None	
	Total	70.3	69	N/A	60	N/A	60	N/A	60	N/A	9	N/A	9	N/A	9	
		*Calculated Lmax is the Loudest value.														

Roadway Construction Noise Model (RCNM),Version 1.1

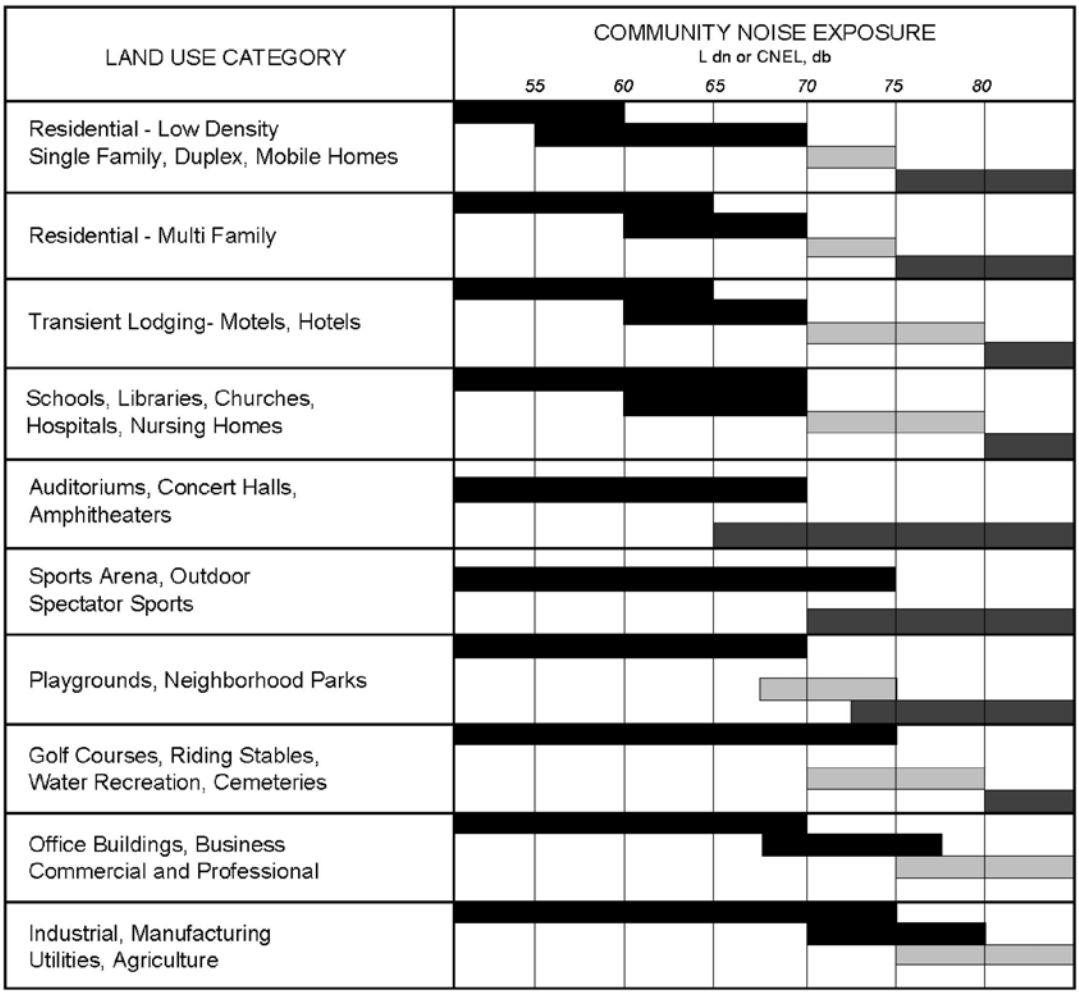
Report date	8/7/2012															
Case Desc	Beamer Install and Steel Erection															
				---- Receptor #1 ----												
		Baselines (dBA)														
Description	Land Use	Daytime	Evening	Night												
Adjacent re	Residential	60	60	60												
				Equipment												
				Spec	Actual	Receptor	Estimated									
		Impact		Lmax	Lmax	Distance	Shielding									
Description		Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)									
Vibratory Pile Driver		No	20		100.8	130	0									
Vibratory Pile Driver		No	20		100.8	347	0									
Backhoe		No	40		77.6	130	0									
Backhoe		No	40		77.6	347	0									
Crane		No	16		80.6	130	0									
Crane		No	16		80.6	347	0									
				Results												
		Calculated (dBA)			Noise Limits (dBA)							Noise Limit Exceedance (dBA)				
				Day		Evening		Night		Day			Evening		Night	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Vibratory Pile Driver		92.5	85.5	N/A	60	N/A	60	N/A	60	N/A	25.5	N/A	25.5	N/A	25.5		
Vibratory Pile Driver		84	77	N/A	60	N/A	60	N/A	60	N/A	17	N/A	17	N/A	17		
Backhoe		69.3	65.3	N/A	60	N/A	60	N/A	60	N/A	5.3	N/A	5.3	N/A	5.3		
Backhoe		60.7	56.8	N/A	60	N/A	60	N/A	60	N/A	None	N/A	None	N/A	None		
Crane		72.3	64.3	N/A	60	N/A	60	N/A	60	N/A	4.3	N/A	4.3	N/A	4.3		
Crane		63.7	55.8	N/A	60	N/A	60	N/A	60	N/A	None	N/A	None	N/A	None		
	Total	92.5	86.2	N/A	60	N/A	60	N/A	60	N/A	26.2	N/A	26.2	N/A	26.2		
		*Calculated Lmax is the Loudest value.															
				---- Receptor #2 ----												
		Baselines (dBA)														
Description	Land Use	Daytime	Evening	Night												
Adjacent re	Residential	60	60	60												
				Equipment												
				Spec	Actual	Receptor	Estimated									
		Impact		Lmax	Lmax	Distance	Shielding									
Description		Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)									
Vibratory Pile Driver		No	20		100.8	340	0									
Vibratory Pile Driver		No	20		100.8	465	0									
Backhoe		No	40		77.6	340	0									
Backhoe		No	40		77.6	465	0									
Crane		No	16		80.6	340	0									
Crane		No	16		80.6	465	0									
				Results												
		Calculated (dBA)			Noise Limits (dBA)							Noise Limit Exceedance (dBA)				
				Day		Evening		Night		Day			Evening		Night	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Vibratory Pile Driver		84.2	77.2	N/A	60	N/A	60	N/A	60	N/A	17.2	N/A	17.2	N/A	17.2		
Vibratory Pile Driver		81.5	74.5	N/A	60	N/A	60	N/A	60	N/A	14.5	N/A	14.5	N/A	14.5		
Backhoe		60.9	56.9	N/A	60	N/A	60	N/A	60	N/A	None	N/A	None	N/A	None		
Backhoe		58.2	54.2	N/A	60	N/A	60	N/A	60	N/A	None	N/A	None	N/A	None		
Crane		63.9	55.9	N/A	60	N/A	60	N/A	60	N/A	None	N/A	None	N/A	None		
Crane		61.2	53.2	N/A	60	N/A	60	N/A	60	N/A	None	N/A	None	N/A	None		
	Total	84.2	79.1	N/A	60	N/A	60	N/A	60	N/A	19.1	N/A	19.1	N/A	19.1		
		*Calculated Lmax is the Loudest value.															

			Roadway Construction Noise Model (RCNM),Version 1.1													
Report date	8/7/2012															
Case Desc	Grasslands grading															
				---- Receptor #1 ----												
		Baselines (dBA)														
Description	Land Use	Daytime	Evening	Night												
residential	Residentia	60	60	60												
				Equipment												
				Spec	Actual	Receptor	Estimated									
		Impact		Lmax	Lmax	Distance	Shielding									
Description		Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)									
Grader		No	40	85		850	0									
Dozer		No	40		81.7	850	0									
Compactor (ground)		No	20		83.2	850	0									
Flat Bed Truck		No	40		74.3	850	0									
				Results												
		Calculated (dBA)			Noise Limits (dBA)							Noise Limit Exceedance (dBA)				
				Day		Evening		Night		Day		Evening		Night		
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Grader		60.4	56.4	N/A	60	N/A	60	N/A	60	N/A	None	N/A	None	N/A	None	
Dozer		57.1	53.1	N/A	60	N/A	60	N/A	60	N/A	None	N/A	None	N/A	None	
Compactor (ground)		58.6	51.6	N/A	60	N/A	60	N/A	60	N/A	None	N/A	None	N/A	None	
Flat Bed Truck		49.6	45.7	N/A	60	N/A	60	N/A	60	N/A	None	N/A	None	N/A	None	
	Total	60.4	59.2	N/A	60	N/A	60	N/A	60	N/A	None	N/A	None	N/A	None	
		*Calculated Lmax is the Loudest value.														

			Roadway Construction Noise Model (RCNM),Version 1.1													
Report dat	8/7/2012															
Case Desc	Grasslands Install and Steel Erection															
				---- Receptor #1 ----												
		Baselines (dBA)														
Description	Land Use	Daytime	Evening	Night												
Residentia	Residentia	60	60	60												
				Equipment												
				Spec	Actual	Receptor	Estimated									
		Impact		Lmax	Lmax	Distance	Shielding									
Description		Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)									
Vibratory Pile Driver		No	20		100.8	362	0									
Vibratory Pile Driver		No	20		100.8	850	0									
Backhoe		No	40		77.6	362	0									
Backhoe		No	40		77.6	850	0									
Crane		No	16		80.6	362	0									
Crane		No	16		80.6	850	0									
				Results												
		Calculated (dBA)			Noise Limits (dBA)							Noise Limit Exceedance (dBA)				
				Day		Evening		Night		Day		Evening		Night		
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Vibratory Pile Driver		83.6	76.6	N/A	60	N/A	60	N/A	60	N/A	16.6	N/A	16.6	N/A	16.6	
Vibratory Pile Driver		76.2	69.2	N/A	60	N/A	60	N/A	60	N/A	9.2	N/A	9.2	N/A	9.2	
Backhoe		60.4	56.4	N/A	60	N/A	60	N/A	60	N/A	None	N/A	None	N/A	None	
Backhoe		53	49	N/A	60	N/A	60	N/A	60	N/A	None	N/A	None	N/A	None	
Crane		63.4	55.4	N/A	60	N/A	60	N/A	60	N/A	None	N/A	None	N/A	None	
Crane		55.9	48	N/A	60	N/A	60	N/A	60	N/A	None	N/A	None	N/A	None	
	Total	83.6	77.4	N/A	60	N/A	60	N/A	60	N/A	17.4	N/A	17.4	N/A	17.4	
		*Calculated Lmax is the Loudest value.														

H.3 - Community Noise Environments

Land Use Compatibility
for Community Noise Environments



INTERPRETATION

Normally Acceptable
Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal conventional construction, without any special noise insulation requirements.

Conditionally Acceptable
New construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made and needed noise insulation features included in the design. Conventional construction, but with closed windows and fresh air supply systems or air conditioning will normally suffice.

Normally Unacceptable
New construction or development should generally be discouraged. If new construction or development does proceed, a detailed analysis of the noise reduction requirements must be made and needed noise insulation features included in the design.

Clearly Unacceptable
New construction or development should generally not be undertaken.

Source: California Office of Noise Control.

H.4 - Noise Curtain Information

Barricade™
NOISE CONTROL PRODUCTS

Bulletin
SS-108

Barrier & Quilted Fiberglass Absorber Composites

FEATURES:

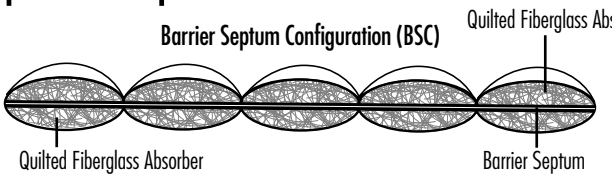
- ♦ Maximum noise reduction by combining sound absorber and noise barrier
- ♦ Sound Absorption Rating to NRC-1.05
- ♦ Transmission Loss Rating to STC-32
- ♦ Offered in two styles with a variety of combinations
- ♦ Acoustical liners, jackets, wraps and panels
- ♦ Available in curtain panels, bound or unbound rolls, custom fabrications or die-cut pieces
- ♦ Flexible composites conform to any shape
- ♦ Fire safe and low smoke emissions per ASTM E-84, Class 1

SOUND SEAL®

"BSC" Style: Barrier Septum Composite

*Barricade™ **"BSC"** composite by Sound Seal® 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.*

Barrier Septum Configuration (BSC)



Over 800 BSC Absorber/Barriers Panels in 50 different sizes

Barricade "BSC" Acoustical Panels were used to line the interior of a large natural gas compressor station. The sound absorptive quilted fiberglass portion of the composite panel reduced the noise levels inside the building by 6 to 8 decibles, and combined with the noise barrier septum and quilted fiberglass decoupler on the opposite side of the product, produced a 15 dB(A) noise reduction outside of the building. See Sound Off Case History Vol. 1, No. 1 for additional information.

Also Available As:

- Rolls with edges bound and sewn with matching edge binding
- Unbound rolls-edges exposed
- Standard roll size 4'W x 25'L
- Curtain panels with grommets at top and Hook & Loop fasteners sewn along edges
- Liner panels with bound edges
- Die-cut pieces, custom fabrications

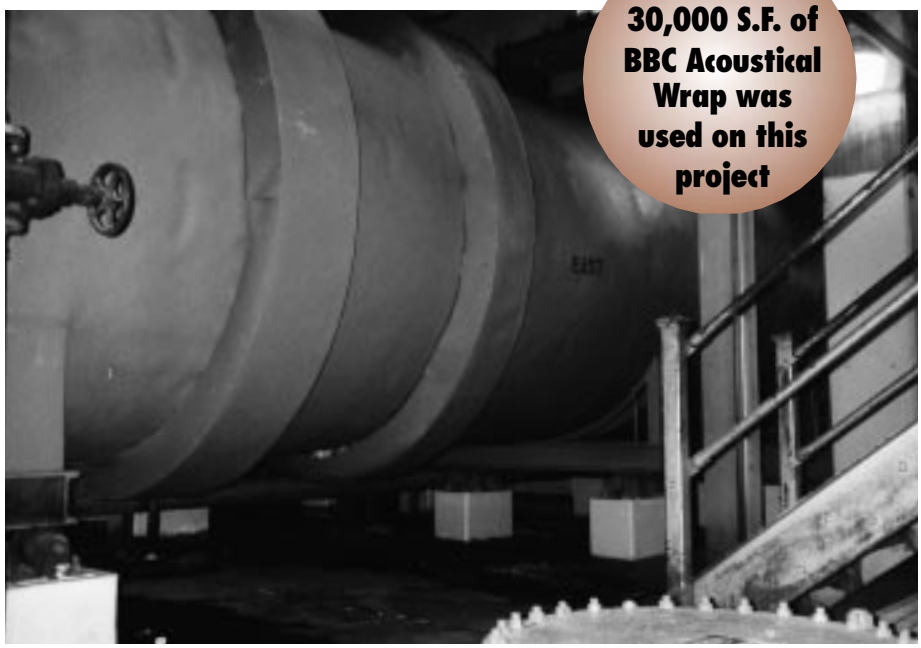
- **Types of facing material on quilted fiberglass:**
  VCFC — Vinyl - Coated - Fiberglass - Cloth
  SCFC — Silicone - Coated - Fiberglass - Cloth
  NPS — Non-Woven - Porous Scrim
  GUILFORD — Decorative Fabric
- **Available Barriers:**
  BSC products utilize a flexible 1 lb. PSF non-reinforced loaded vinyl noise barrier septum (B-10NR).
  Also available with a 2 lb. PSF or 1/2 lb. PSF barrier

See back page for specifications

"BBC" Style: Barrier Backed Composite

*Barricade™ **"BBC"** composite features a **reinforced** loaded vinyl noise barrier with a quilted fiberglass sound absorber on **one** side. The rugged durable exterior barrier is commonly used as a wrap or acoustical jacket due to its ability to conform to any shape. The quilted fiberglass layer decouples the noise barrier to enhance its acoustical performance.*

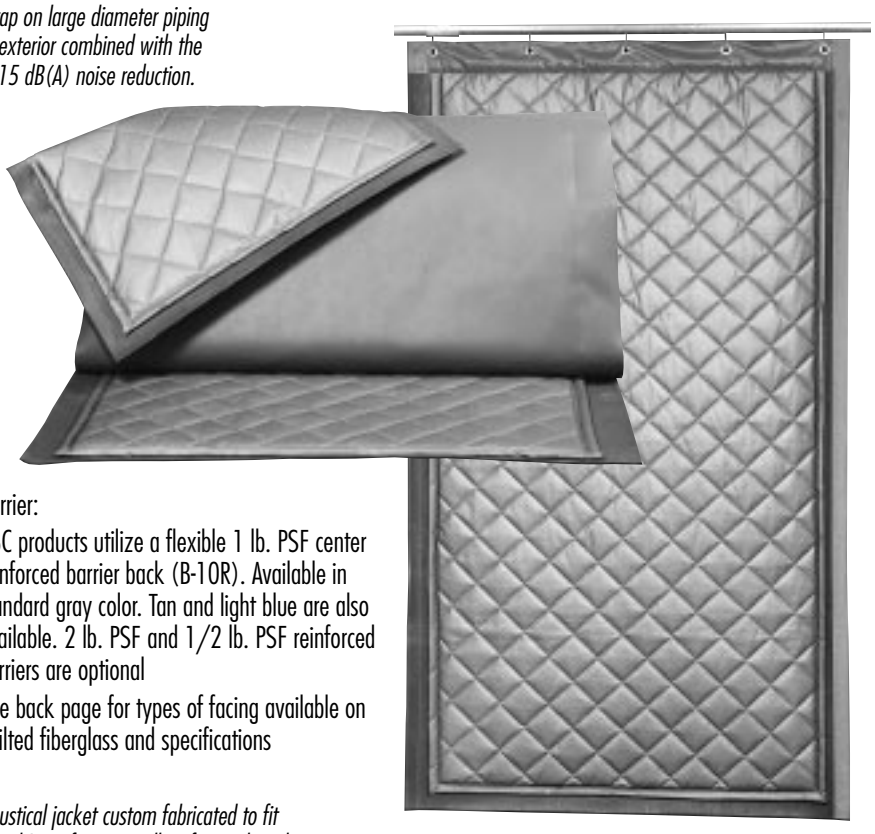
Barrier Backed Configuration (BBC)



Barricade "BBC" acoustical composite was used as an acoustical wrap on large diameter piping at a Waste Water Treatment facility. The durable reinforced barrier exterior combined with the quilted fiberglass decoupler offers maximum longevity as well as a 15 dB(A) noise reduction.

Also Available As:

- Rolls with edges bound and sewn with matching edge binding
- Unbound rolls with quilted fiberglass edges exposed
- Standard roll size 54" wide barrier, with 48" wide quilt, 25' long
- Curtain panels with grommets at top and Hook & Loop fasteners sewn along edges
- Custom fabricated acoustical jackets
- Die-cut pieces



- Barrier:
  BBC products utilize a flexible 1 lb. PSF center reinforced barrier back (B-10R). Available in standard gray color. Tan and light blue are also available. 2 lb. PSF and 1/2 lb. PSF reinforced barriers are optional
- See back page for types of facing available on quilted fiberglass and specifications

BBC-13-2" acoustical jacket custom fabricated to fit blower. Hook and Loop fasteners allow for quick and easy installation and removal.

The most effective noise reduction products combine both sound absorption and noise barrier properties. Tested under strict compliance to appropriate ASTM standards, we offer the following results.

Acoustical Data:

Sound Transmission Loss (dB) Octave Band Center Frequencies (Hz)									
Product	Thickness (In./Nom.)	Wt. Lb./S.F.	125	250	500	1000	2000	4000	**STC**
BBC-13-2"	2	1.5	13	20	29	40	50	55	**32**
BBC-13	1	1.3	11	16	24	30	35	35	**27**
BBC-14-2"	2	1.5	13	20	29	40	50	55	**32**
BBC-14	1	1.3	11	16	24	30	35	35	**27**
BSC-25	2	1.5	12	16	27	40	44	43	**29**
BSC-25-2B	2	2.5	19	22	28	40	56	61	**33**
BSC-31	2	1.5	12	16	23	33	38	39	**27**

Per ASTM: E 90

Barrier Specifications:

Barrier Component	Style	Weight Lb./Sq. Ft.	Thickness Inches	Composite
B - 10 NR	Non-Reinforced	1	.107	BSC
B - 5 NR	Non-Reinforced	1/2	.042	BSC
B - 20 NR	Non-Reinforced	2	.225	BSC
B - 10 R	Reinforced	1	.090	BBC
B - 5R	Reinforced	1/2	.050	BBC

Available Facings on Quilted Fiberglass:

- ✦ Vinyl - Coated - Fiberglass - Cloth (Standard)
  Colors: Gray, White, Tan or Black
  Temp. Range: -20°F to + 180°F
  Durable, resists most chemicals
- ✦ Silicone - Coated - Fiberglass - Cloth (High Temp)
  Color: Silver
  Temp. Range: -90°F to + 550°F
  Used on high temperature applications
  Also suitable for outdoor UV exposure
- ✦ Non-woven Porous Scrim (Economy)
  Colors: Off White
  Temp. Range: -40°F to + 350°F
  Readily accepts any adhesive
- ✦ Guilford fabric facing (Decorative)
  Colors: Over 60 colors to choose from (see swatch booklet)
  Temp. Range: -20°F to + 350°F
  FR 701 Fabric is Class 1 Flammability Rated
  For commercial or architectural applications

For additional information see:
SS101 Curtain Systems
SS104 Flexible Barriers
SS106 Quilted Fiberglass Absorbers

Sound Absorption Data-Absorber Component Random Incident Sound Absorption							
	Octave Band Center Frequencies (Hz)						
Product	125	250	500	1000	2000	4000	**NRC**
BBC 1" thick	.12	.47	.85	.84	.64	.62	**.70**
BBC 2" thick	.07	.27	.96	1.13	1.08	.99	**.85**
BBC 4" thick	.21	.89	1.09	1.17	1.13	1.07	**1.05**
BSC 2" thick	.19	.99	.96	.80	.57	.33	**.85**

Per ASTM: C423-81 and C423-90a

Also Available from Sound Seal:

The tables on this page refer to some of the more common BSC and BBC composites. There are many others which combine the wide variety of barriers and quilted fiberglass absorbers available to address any industrial application. For example, BSC-26 utilizes a silicone-coated-fiberglass cloth faced quilted fiberglass absorber (instead of the vinyl-coated-fiberglass cloth faced quilted fiberglass on BSC-25) combined with a 1 lb. PSF loaded vinyl noise barrier septum for high temperature application.

Likewise, BBC-14 or BBC-14-2" incorporates the silicone facing, instead of the vinyl-faced BBC-13 or BBC-13-2", combined with a 1 lb. PSF reinforced loaded vinyl backing. In addition to high temperature applications, these U.V. resistant curtain panels are suitable for outdoor applications.

Another example such as BSC-25-2B substitutes a 2 lb. PSF noise barrier for the 1 lb. PSF version in BSC-25 to improve acoustical performance, especially at lower frequencies.

Distributed By

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