



Brooks Acoustics Corporation

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Mr. Mohit Girdhar - Interim General Manager
Auberge Resorts Collection
Mayflower Inn & Spa
118 Woodbury Road Route 47
Washington, CT 06793

12 November 2021
PJ2021-1374-L01

Subject: Hospitality Tent Acoustical Design

Dear Mr. Girdhar:

As requested, Brooks Acoustics Corporation (BAC) has conducted an acoustical engineering and design study to evaluate the potential sound emissions from the current Hospitality Tent facility, located adjacent to the Spa building at the Mayflower Inn, and any impact that those sounds may have on the surrounding neighborhood. Also, a sound management program was developed to promote a calm quiet environment at the facility. This program will minimize the impact from Hospitality musical entertainment on the surrounding neighborhood.

Importantly, this design evaluation was conducted such that the Hospitality Tent facility can be **in compliance** with the requirements of the Town of Washington.

As part of this study, site observations were made to assist in the evaluation of the Tent acoustics and visits were made to the neighborhood in the vicinity.

Based on this analysis, it is the opinion of BAC that with a reasonable degree of engineering certainty that the establishment of the *special use will be in harmony* with or compatible with its neighbors and generally consistent with the comprehensive plan. Therefore, the proposed facility will have *little or no impact* on the surrounding residential neighborhood.

Therefore, the facility is expected to be *in compliance* with the Town of Washington requirements.

Sound management program

A sound management program for the Hospitality Tent facility was developed. This program has three major elements, which are designed to reduce the potential for impact on the surrounding neighborhood. These sound management elements are:

1. Sound isolation construction design (Music Shed) for the facility entertainment providers.
2. Acoustical absorption material inside the Hospitality Tent and a more robust sound isolation tent envelope.
3. Musical entertainment management program to limit sound levels.

Discussion

1. A **musical entertainment shed** was designed to provide significant sound isolation from the interior to the exterior of the Hospitality Tent. The shed will also direct sound from the musical entertainment away from the neighbors and toward the event guests.

A photo of the Hospitality Tent viewing north is shown below.



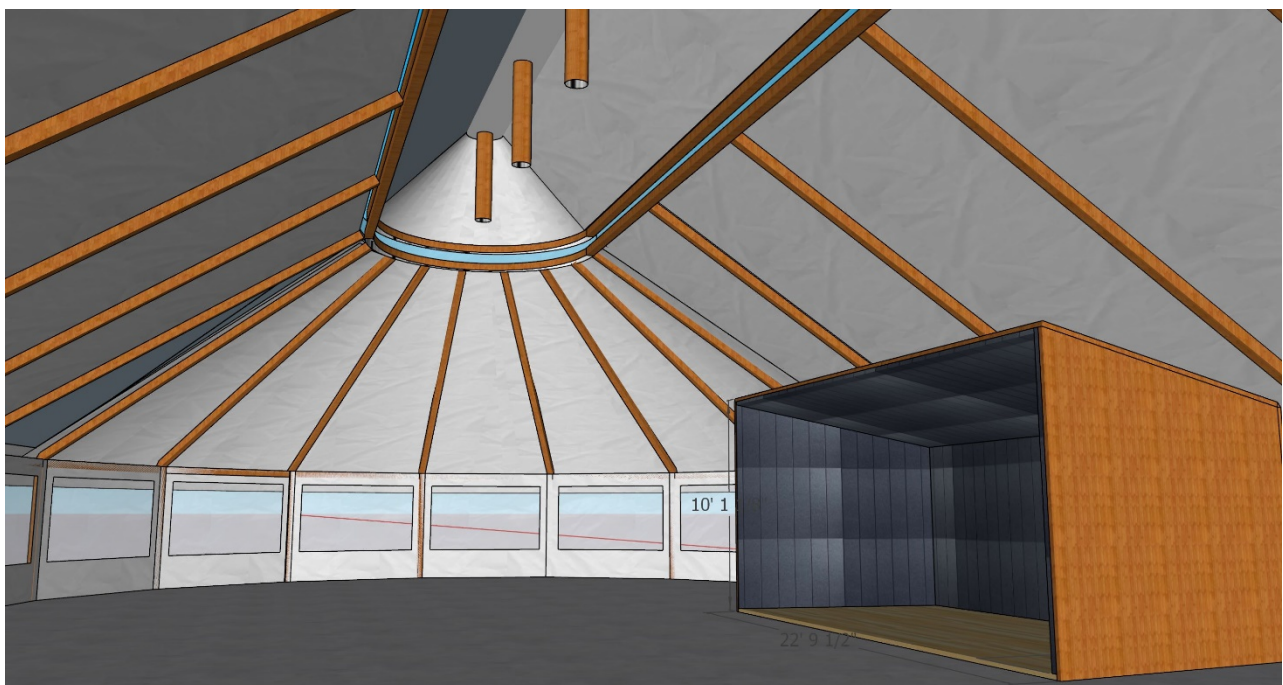
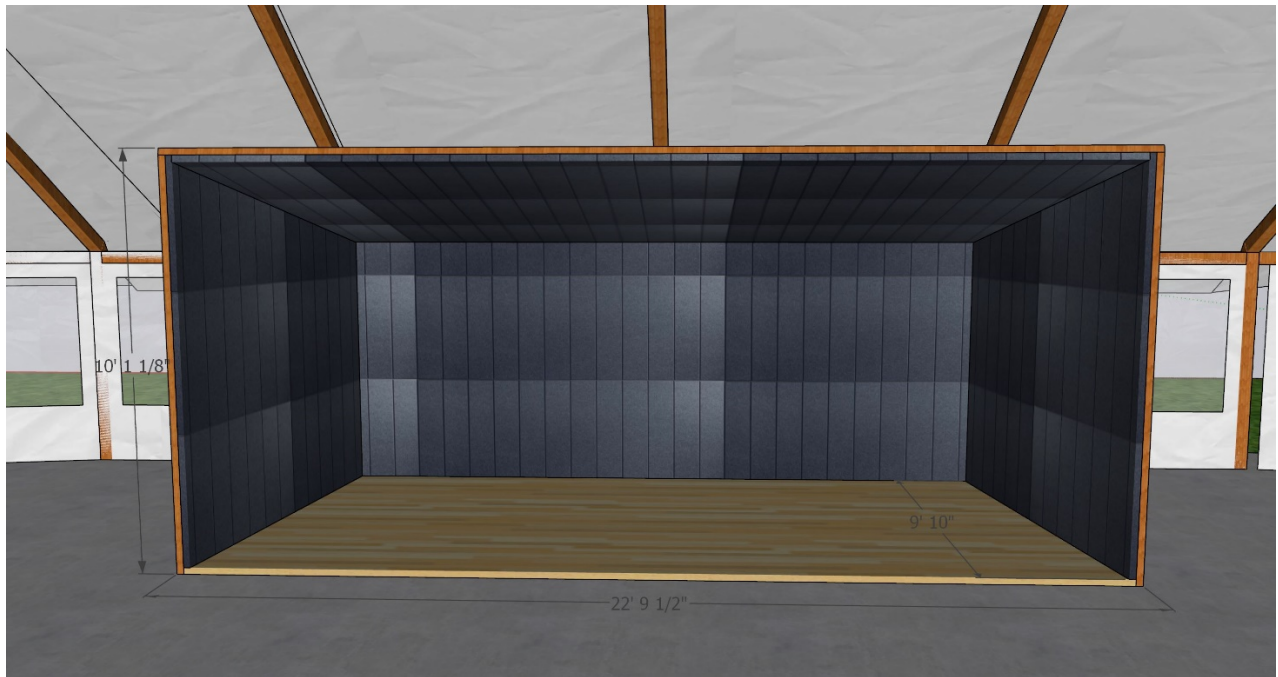
The proposed location for the musical entertainment shed inside the tent is the area usually reserved for the musical entertainment provider (live band or DJ), seen below.



The Music Shed will be closed on 3 sides with the front (south) side open to the inside of the Hospitality Tent. The back (north) and sides (east and west) of the Music Shed will be closed, as will a ceiling (roof) built over the shed structure.

Therefore, the sound of the musical entertainment will be channeled toward the event guests and away from the neighbor residences to the north and west.

Sketches of the proposed music shed are shown below. Additional sketches are attached.



A key component of the proposed Music Shed is its **wall and ceiling (roof) assembly**, which is to be designed to provide a sound transmission class (STC) rating of STC 74. The wall and roof assembly is shown in the sketch below.

Sound isolation calculations with a detailed description of this assembly are attached.

This *wall assembly is designed to contain the sound* that the band or DJ may generate inside the Hospitality Tent, and prevent it from reaching the outside in the direction of the neighbors. Note that this assembly is very effective in blocking sounds across the spectrum from low (bass) to high (treble) frequencies.

The interior walls and ceiling of the Music Shed are treated with **sound absorbing panels**, such as the Polysorb panel, to soak up the sounds that the music may generate before it reaches the shed wall or ceiling assembly. This will reduce the sound build-up inside the shed and improve the sound isolation performance of the wall.

2. **Sound absorbent material panels** will extend all around the upper panels of the Hospitality Tent. Further, additional transparent roll-up sound barrier panels will be installed around the tent sides. These materials will significantly reduce the sound levels which may reach the neighbor residences. The additional sound barrier panels will provide a sound isolation for the tents sides of up to STC 26. The sound absorbent panels will decrease the emitted sound from the tent by between 8 and 10 dB. Data sheets for typical sound absorbent and sound barrier materials are attached.

Sound absorbent panels inside the Hospitality Tent will provide several benefits. These panels will reduce the amount of sound inside the tent which may reach the outside. The panels will also provide a quieter and calmer, more elegant atmosphere inside the tent for event guests.

3. A **musical entertainment management program** will be instituted at the facility to address the needs of the neighbors and the Town of Washington. This program was developed based on extensive experience managing entertainment venues for environmental compliance.

Firstly, the facility sound system will be a “house system” which is installed in the Music Shed and operated and managed by facility personnel, not the music provider. This will provide a level of control which is not currently in place. Musical entertainment providers will be obligated to use the house system.

Sound levels will be monitored inside the Hospitality Tent on a continuous basis. The monitor equipment will provide a visual indication to the entertainment providers and to the facility management regarding the acceptable volume level of the musical entertainment. This can take the form of green, yellow and red indicator lights. When the green light is on, the music level will be such that the resulting sound at the nearest neighbor (~ 500 feet distance) is within the limits set by the Regulations of Connecticut State Agencies (RCSA Section 22a – 69) and be at or below the design target level.

It will be rare that the maximum volume level will be exceeded as the house sound system will automatically compensate and reduce the level if needed to maintain the limits.

Summary

Musical entertainment acts will be housed inside a sound-isolating Music Shed building inside the Hospitality Tent. Also, sound absorbing and blocking materials will be installed and added to the existing tent which will further reduce the amount of sound which may escape the tent facility. It is conservatively estimated that these features will reduce the level of sound which leaves the Hospitality Tent by about 25 to 30 dBA.

In addition, sound system design features will be employed to further protect neighboring homes and decrease the impact of sound. These features include a sound monitoring system and house entertainment sound system managed and operated by the facility. These systems will work in tandem to create a quiet environment for the neighbor residences.

The above described features of the facility sound management program are expected to perform such that the facility will conform to the requirement that it will **not be detrimental** and will not disturb the comfort and repose of any person in the vicinity.

Sound Level Standards

The Regulations of Connecticut State Agencies (RCSA Section 22a – 69) require that noise emitted to a residential property use shall not exceed 55 dBA (A-weighted decibels) during daytime hours and 45 dBA during nighttime hours. Daytime hours are defined as 7:00 a.m. to 10:00 p.m. Nighttime hours are all other times, that is, after 10:00 p.m.

In order to maintain good relations with the neighbors, the **design target level** for the Hospitality Tent sound management program is **45 dBA** at the nearest neighbor at all times.

Acoustical Engineering Calculations – Hospitality Tent sound levels

Acoustical engineering calculations were made to estimate the sound levels after the implementation of the proposed Sound Management Program for the Mayflower Inn Hospitality Tent facility.

The nearest house to the facility is to the west, off of Wykeham Road about 500 feet from the musical entertainment location. This is shown on the aerial photo of the facility location, in Figure 1, attached.

The sound levels of the proposed event facility were measured by BAC for a wedding DJ. The source sound level of the music was about 93 dBA at a distance of 5 feet. This is a typical sound level for a small venue musical entertainment act, with approximately 50 to 60 guests. For a larger venue such as the Mayflower Inn Hospitality Tent with up to 120 guests, the sound level can increase up to about 100 dBA at 5 feet.

The adjusted (increased) sound test data were applied to the analysis using the physical locations of the sources, the proposed event facility modifications, and the nearest house to the west as the receptor. Calculations were conducted according to the layouts provided by the aerial photo, by the project site plan, Reese Owens Architects drawing TA002A, dated 09.13.2021, and by the tent plans, Reese Owens Architects drawings TA101 and TA201, dated 06.08.2020.

Full frequency spectrum (octave band) source sound levels measured by BAC of the wedding music were converted to sound power levels for the calculation procedure. This model applies to both DJ sound sources and live band music.

The source sound and location data were used as inputs to a computer modeling procedure which calculated the propagation of the source sounds to the receptor positions. The sound propagation calculation procedure accounts for the effects of the source musical equipment operating, calculated Music Shed and tent barrier sound attenuation characteristics, and also distance.

The calculation sheets which show the results of the sound levels for the proposed entertainment music projected to the nearest house to the west are attached.

The calculation results for the proposed facility at the nearest house are summarized below:

<u>Source/receiver condition</u>	<u>Sound level</u>
Entertainment music sound level at nearest house to W (500 ft)	35 dBA

The sound level of the proposed facility is well below the sound level limit of the Regulations of Connecticut State Agencies (RCSA Section 22a-69), and the target level of 45 dBA.

Discussion

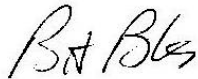
The projected sound levels from the proposed entertainment facility are below the sound level limits of the State of Connecticut. Therefore, the facility is expected to be **in compliance** with the State of Connecticut requirements.

As a reference, the expected entertainment sound level is equivalent to that of a *quiet whisper*, and is below the prevailing ambient background sound in the area. Therefore, it is unlikely that the musical entertainment under the Sound Management Program will cause an impact on neighboring residents.

It is recommended that after construction of the Music Shed, the installation of the house sound system and the modifications to the Hospitality Tent, the sound system be commissioned and calibrated such that with an operating musical entertainment source it meets the sound level requirements of 45 dBA or less at the nearest neighbor.

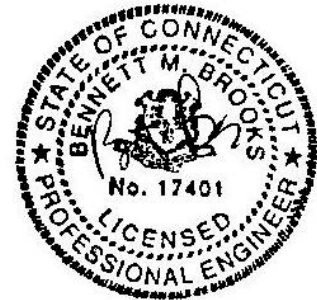
Please contact me if you have any questions concerning these findings.

Very truly yours,
BROOKS ACOUSTICS CORPORATION



Bennett M. Brooks, PE, FASA, INCE
President

Attachments



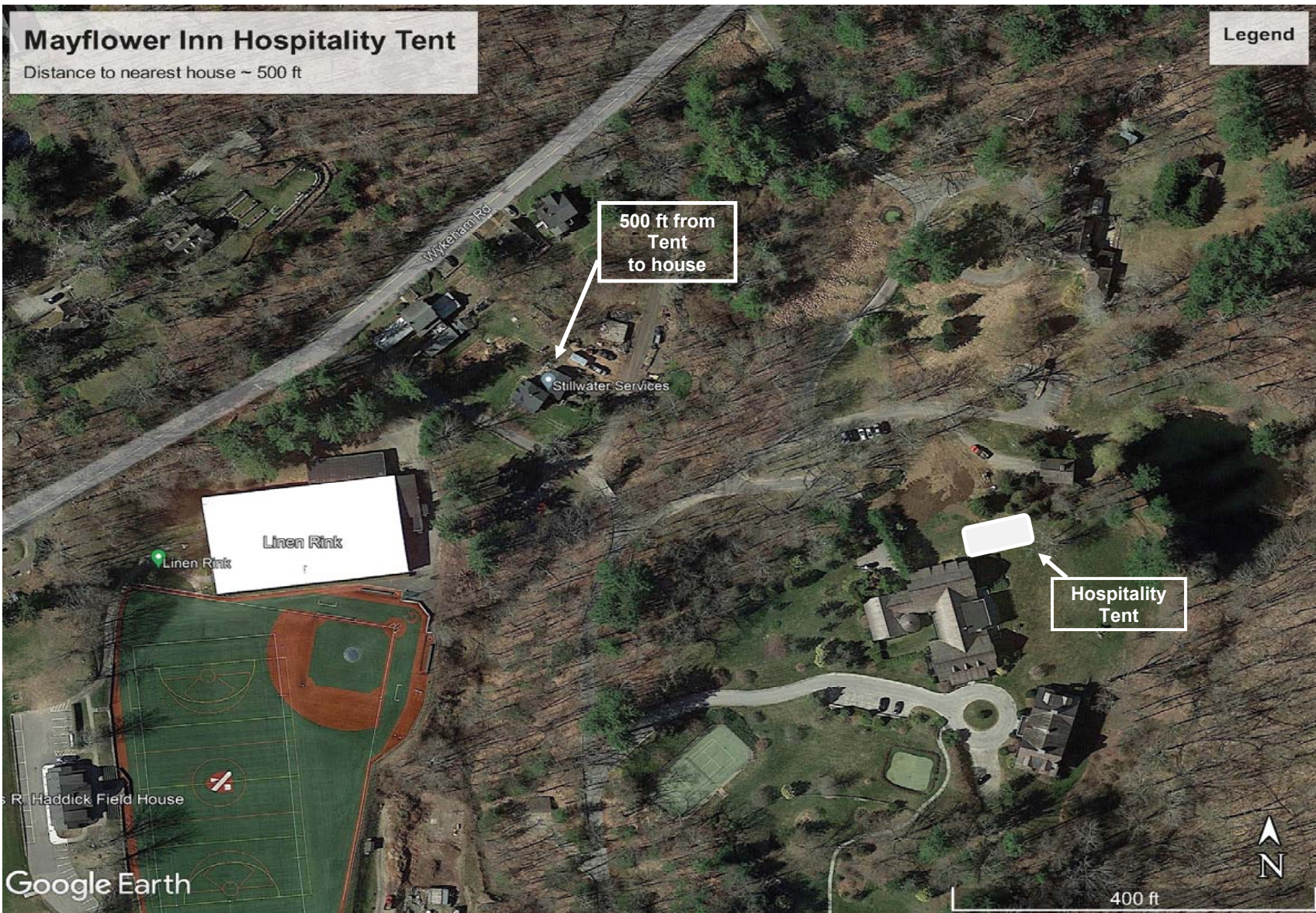
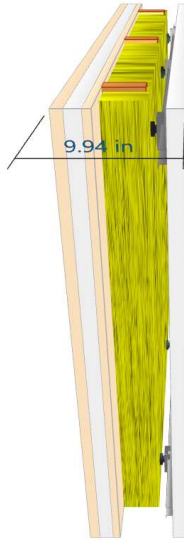


Figure 1. Aerial photograph of the Mayflower Inn Hospitality Tent and surrounding neighborhood.

Margin of error is generally within STC ± 3 dB

Job Name: Mayflower Inn Hospitality Tent
 Job No.: PJ2021-1374 Initials: BMB
 Date: 9/20/2021
 File Name: Shed wall and ceiling assembly .ixl

Notes: Music Shed wall and ceiling assembly



STC 74
OITC 61

Mass-air-mass resonant frequency = 31 Hz

Panel Size = 8.9 ft x 13.1 ft

Partition surface mass = 18.3 lb/ft²

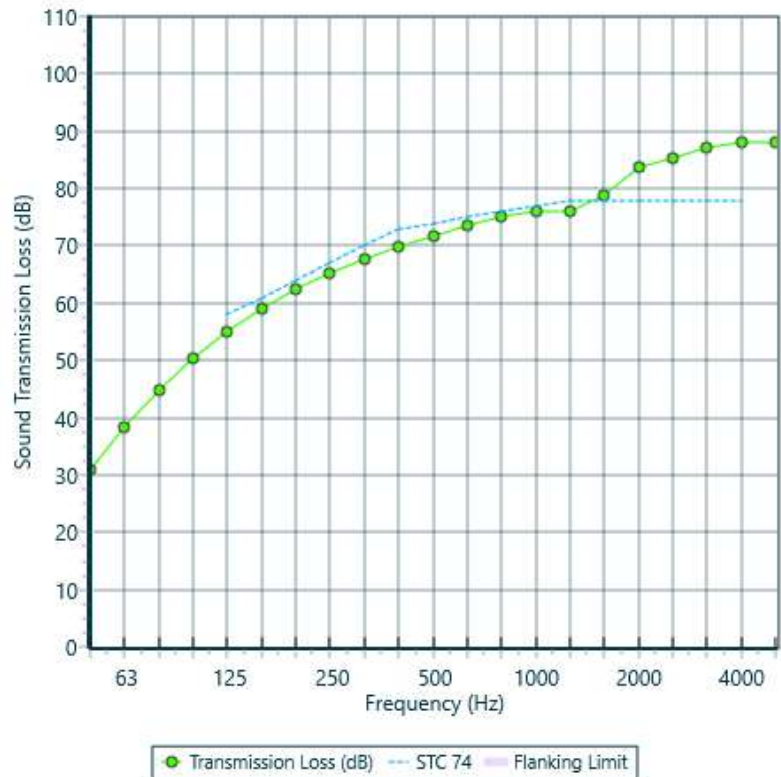
System description

Panel 1 : 1 x 1 in Pine
 + 1 x 0.689 in Plywood

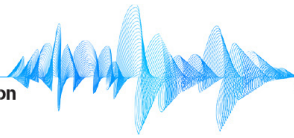
+ 1 x 1.374 in QuietRock 545

Frame: Rubber isolation clip on Timber stud (3.6 in x 1.8 in), Stud spacing 24 in ; Cavity Width 5.5 in , 1 x Mineral wool I (3.8 lb/ft³) Thickness 4.0 in
 Panel 2 : 1 x 1.374 in QuietRock 545

freq.(Hz)	TL(dB)	TL(dB)
50	31	
63	38	35
80	45	
100	50	
125	55	53
160	59	
200	62	
250	65	65
315	68	
400	70	
500	72	71
630	73	
800	75	
1000	76	76
1250	76	
1600	79	
2000	84	82
2500	85	
3150	87	
4000	88	88
5000	88	



● Transmission Loss (dB) --- STC 74 Flanking Limit



Project Name:	Mayflower Inn - Hospitality Tent	Project/Reference Number:	PJ2021-1374
Location:	Washington, CT	Engineered By:	Bennett Brooks, PE, FASA, INCE
Architect:	Reese Owens	Company:	Brooks Acoustics
Mechanical Engineer:		Run Date:	09/21/2021
Contractor:		Notes:	Musical Entertainment

Nearest house to West Calculation Summary

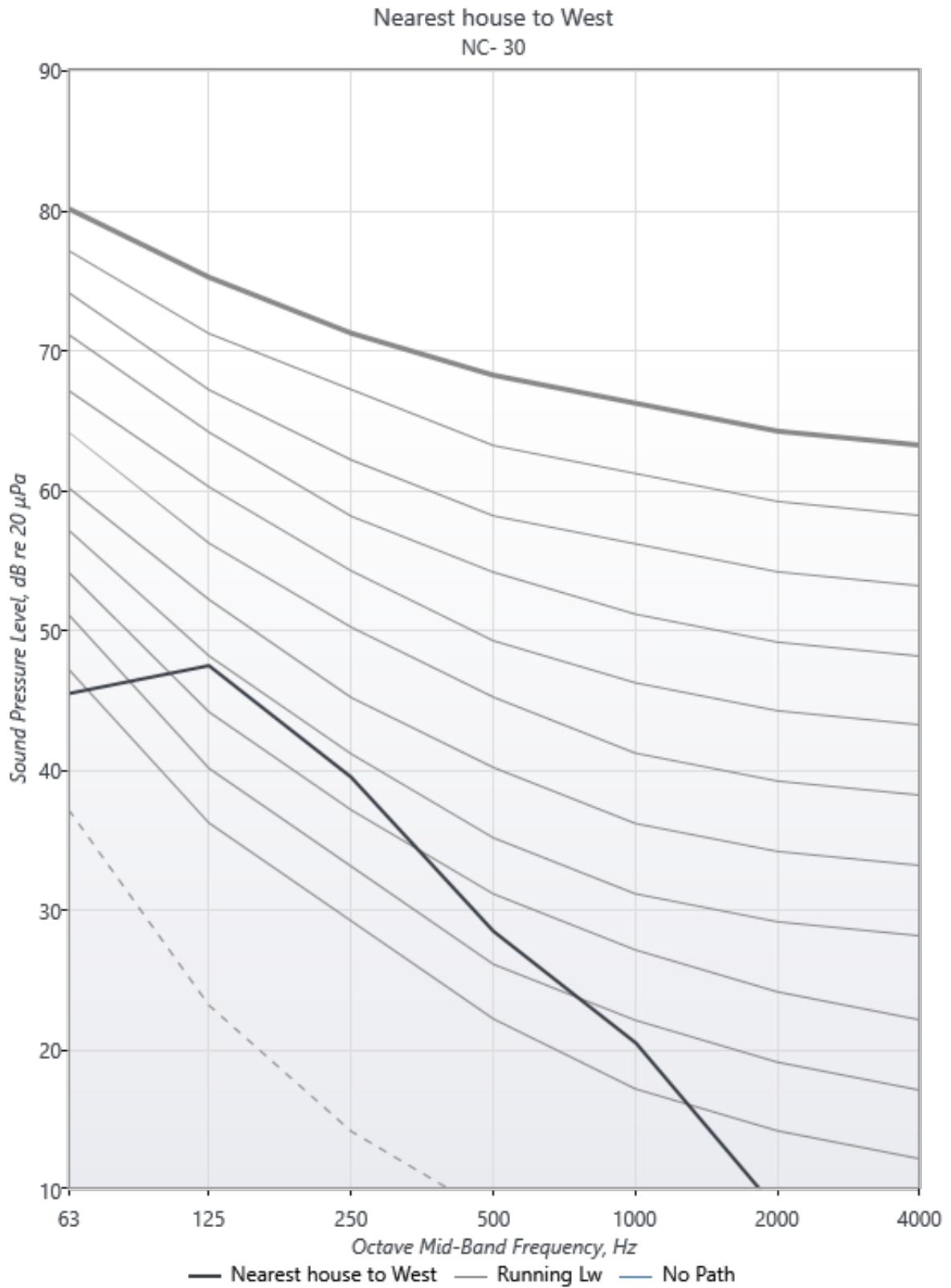
Element	Properties	NC	Octave Midband Frequency, Hz							dB(A)
			63	125	250	500	1K	2K	4K	
1 Nearest house to West	Criteria: NC-65	30	45	47	39	28	20	8	0	35
2 Outdoor Noise (Wykeham Road)	Criteria: NC-65									
3 Musical entertainment			106	112	108	102	98	92	89	
4 Wall			-9	-13	-17	-22	-26	-32	-37	
5 Outdoor Transmission / Noise Barrier			-52	-52	-52	-52	-52	-52	-52	
			0	0	0	0	0	0	0	
6 SUM		30	45	47	39	28	20	8	0	35

Project Name:
Location:
Architect:
Mechanical Engineer:
Contractor:

Mayflower Inn - Hospitality Tent
Washington, CT
Reese Owens

Project/Reference Number:
Engineered By:
Company:
Run Date:
Notes:

PJ2021-1374
Bennett Brooks, PE, FASA, INCE
Brooks Acoustics
09/21/2021
Musical Entertainment



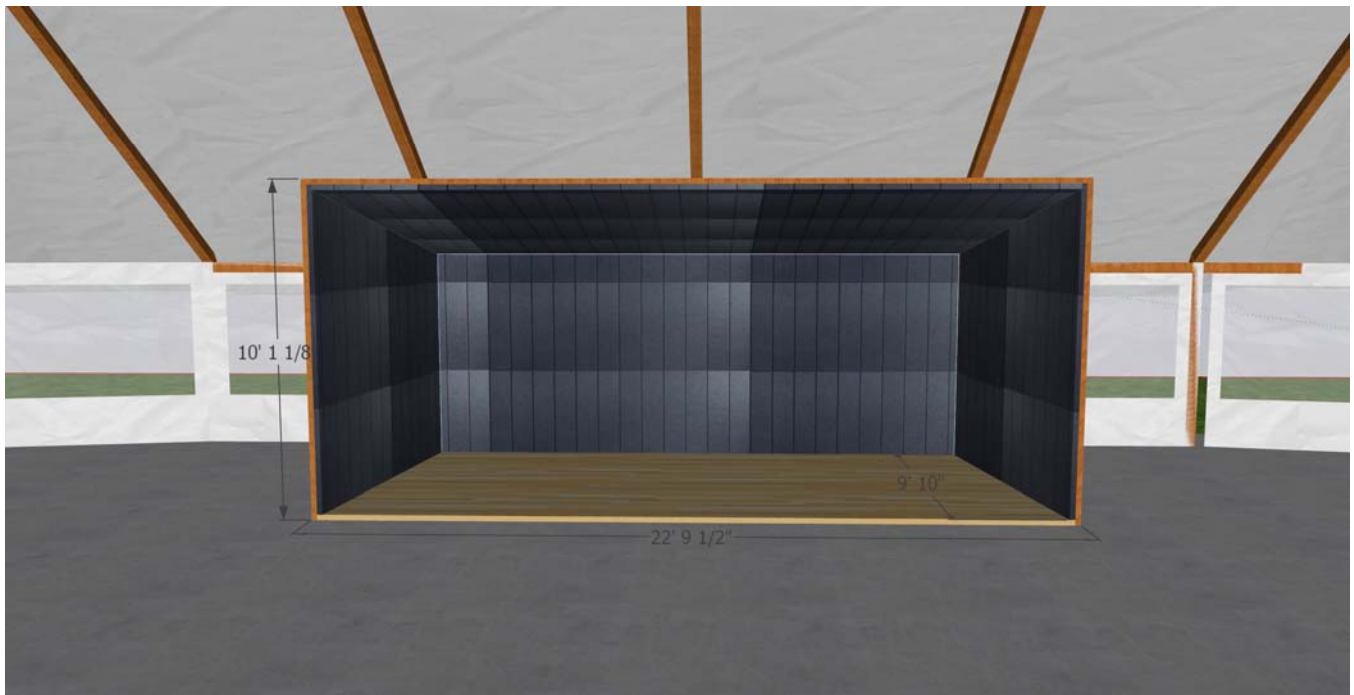
APPENDIX

- 1- Additional sketches of proposed Music Shed and the Hospitality Tent
- 2- Sound treatment product data sheets

Additional Hospitality Tent and Music Shed sketches.







Name: **2" Polysorb**
 Size Available: 5' x 9', 5' x 10'
 Thickness: 2 inch
 Core Density: 5.5
 NRC: 0.95
 Face Type: Ironed or unironed
 Core Color: Charcoal/Black Face, Charcoal, Heather, Light Grey, Cloud, White
 FSI: Class A Flame Spread Index

Description of the test specimen:

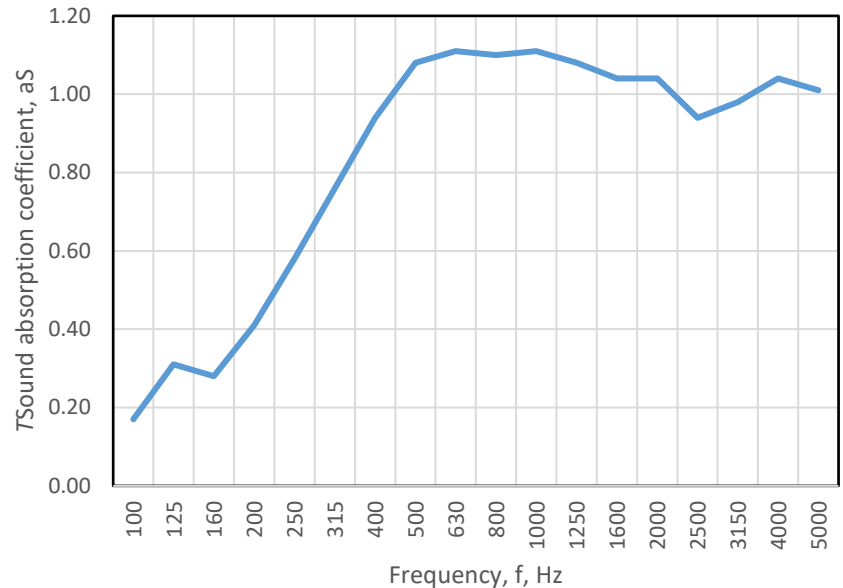
Name: PS2
 Specimen Size: 24" x 48" x 2"
 Mount Method: Type A Mounting Method
 Frame Construction: On the Floor

The shape of the reverberation chamber and its diffusion treatment are described in Annex D.

Area of test specimen: **10.80 m²**
 Air temp in the test room: **22 °C**
 Air humidity in test room: **63%**

Number of sound source positions: **2**
 Number of microphone positions per sound source position: **8**
 Type of noise used: **Pink random noise.**
 Type of mounting used: **TypeA**

Frequency f Hz	T 1 - Empty Chamber	Tc - With Sample	One-Third Octive
100	5.15	1.16	0.17
125	2.76	2.05	0.31
160	2.96	1.88	0.28
200	3.74	2.75	0.41
250	3.71	3.86	0.58
315	3.43	5.10	0.76
400	2.60	6.31	0.94
500	3.99	7.22	1.08
630	4.26	7.39	1.11
800	4.73	7.36	1.10
1000	5.03	7.40	1.11
1250	5.45	7.21	1.08
1600	6.17	6.94	1.04
2000	6.97	6.97	1.04
2500	7.75	6.27	0.94
3150	8.61	6.53	0.98
4000	10.25	6.97	1.04
5000	12.20	6.76	1.01



<i>Ratings according to ISO 11654</i>	
Weighted sound absorption coefficient:	0.95
Sound absorption class:	A

<i>Rating according to ASTM C423 - 99</i>	
Noise Reduction Coefficient =	0.95
Sound Absorption Average =	0.93

Practical sound absorption coefficients

Hz	Xp
125	0.05
250	0.15
500	0.45
1000	0.75
2000	0.95
4000	0.95

It is strongly recommended to use this single number rating in combination with the complete sound absorption coefficient curve.

Evaluation based on laboratory measurement results obtained by an engineering method.

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Products

Polyester is more efficient and cost effective than most other sound absorbing materials, providing new construction and retro-fitting environments of all budgets with another audio control option to consider. Our PolySorb panels offer outstanding sound absorption on ceilings and walls in many colors, thicknesses and installation options.

Polyester audio absorption panels have a wide variety of end uses in the field such as corporate environments, warehouses, education institutions, healthcare facilities, hospitality and convention centers, restaurants and public places, retail spaces, houses of worship and even our homes. Delivering a high degree of cleanliness, safety and consumer satisfaction.

ACOUSTICAL INSULATION – Excellent acoustical performance in sound absorption and dampening.

IMPACT RESILIENT – Very durable and able to absorb shock.

FIRE RATED – Complies with Class A fire code rating per ASTM E84.

PUT A PIN IN IT! – Pinnable tough yet soft surface with excellent holding characteristics.

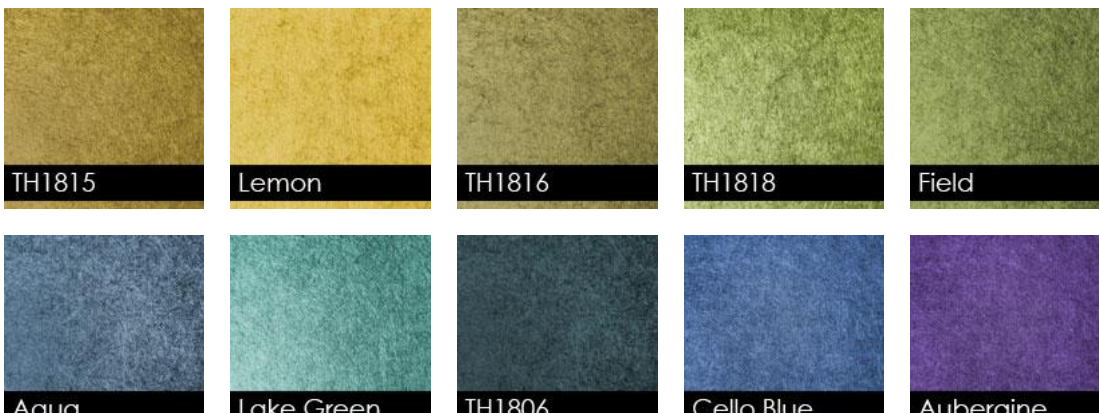
TOUGH AND DURABLE – Will not rot, change color or deteriorate and is non-hygroscopic.

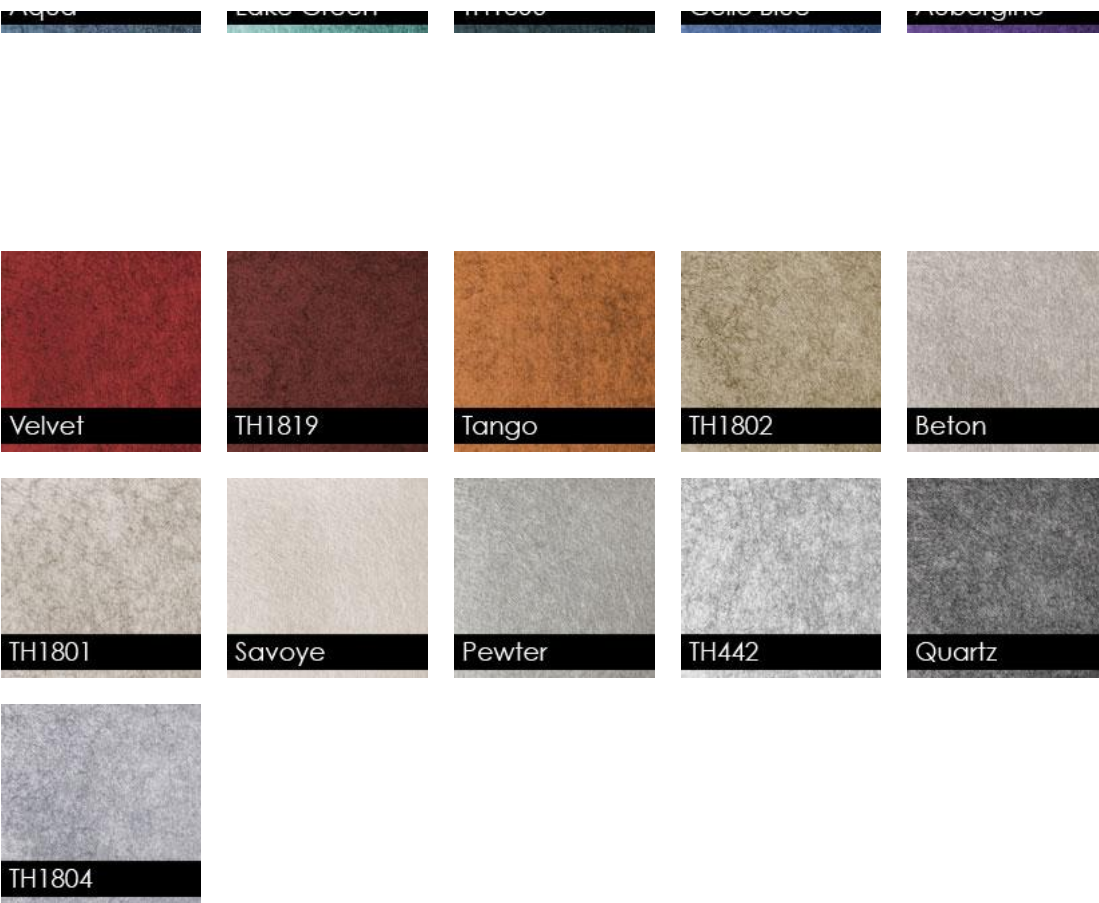
EARTH FRIENDLY – 100% recyclable, VOC free including formaldehyde, non-allergenic and non-toxic.

Easy to cut into custom shapes and light enough to suspend in many different configurations!

[CLICK HERE TO REQUEST A QUOTE OR SAMPLES](#)

1/2" PolySorb Bright Colors - In Stock





3/8" PolySorb Vivid Colors - Available by Special Order

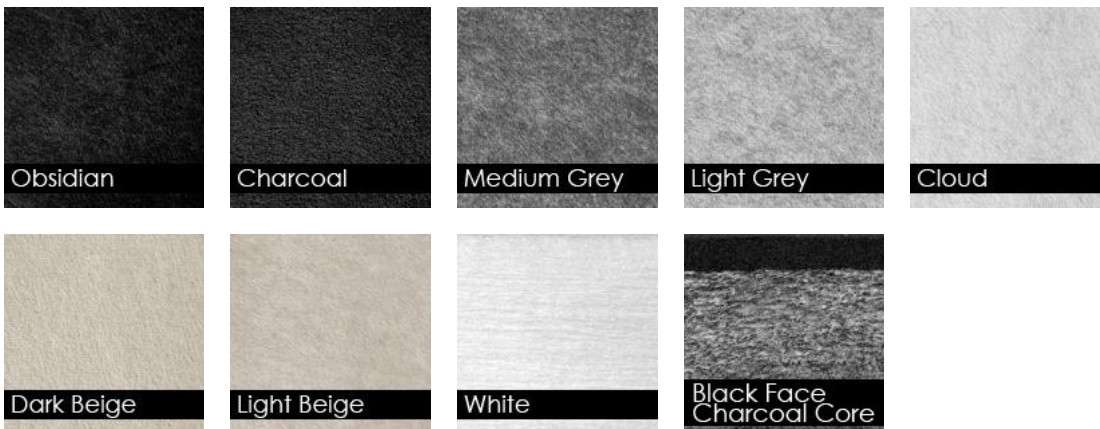




1/2" PolySorb - In Stock



1" PolySorb - In Stock



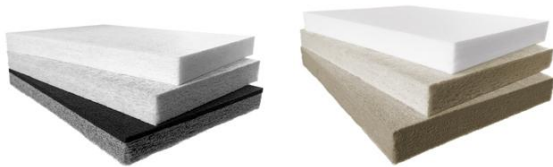
2" PolySorb - In Stock



2" thick panels come in multiple sheet sizes. – In stock



1" thick panels come in multiple sheet sizes. – In stock



1/2" thick panels come in multiple sheet sizes. – In stock



3/8" thick panels come in multiple sheet sizes. – Available by special order



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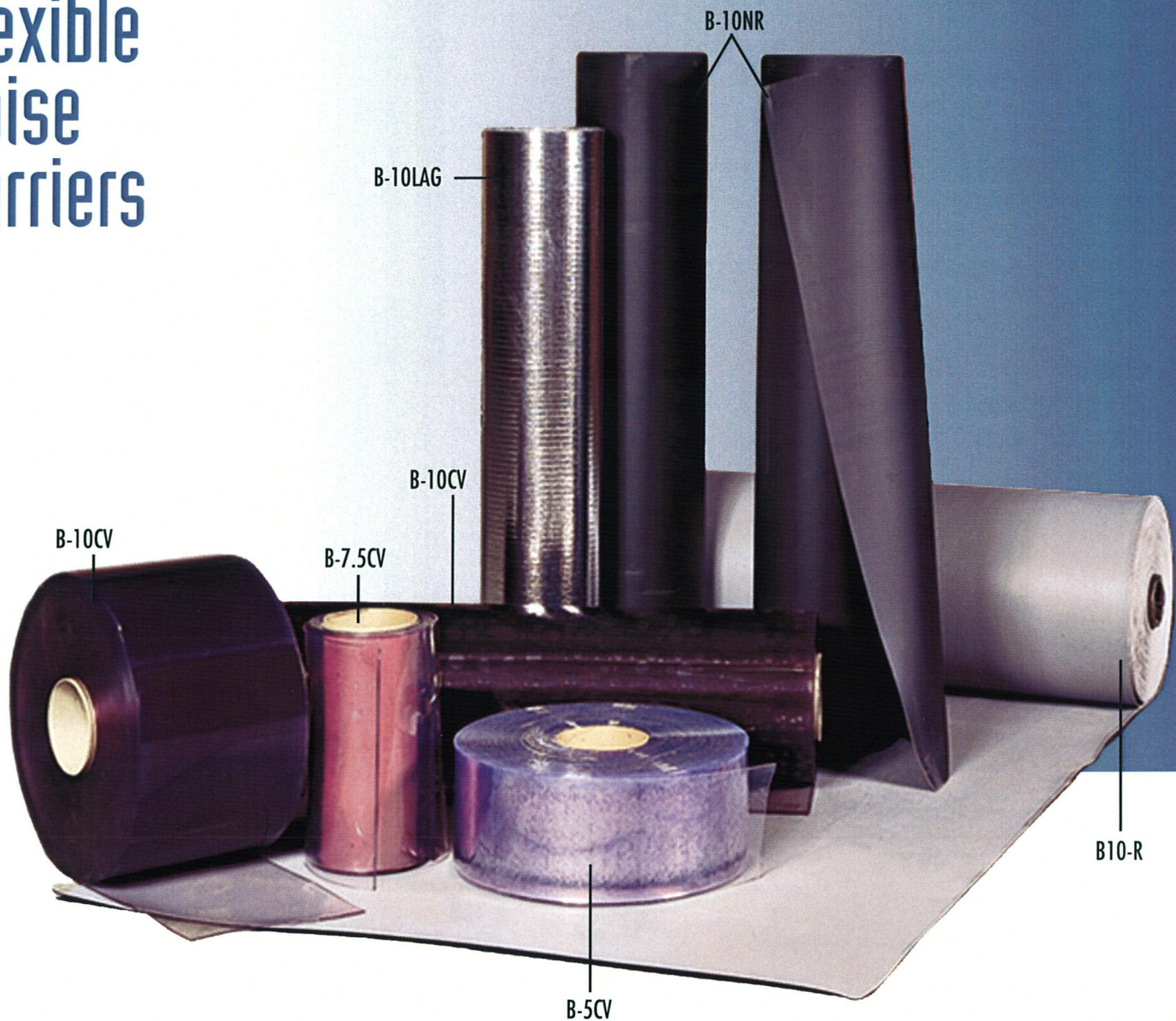
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Flexible Noise Barriers



FEATURES:

- ◆ Loaded vinyl noise barriers
- ◆ Reinforced, non-reinforced, transparent and foil-faced lag styles
- ◆ Mass loaded barriers from 1/2 lb. to 2 lbs. per sq. ft.
- ◆ Acoustical ratings: STC-20 thru STC-31
- ◆ Limp, flexible, formable, versatile
- ◆ High tear and tensile strength
- ◆ For industrial, construction, commercial, residential and OEM applications

Sound Seal's Industrial Division Flexible Noise Barriers are available in a variety of styles to meet a multitude of applications.

Non-Reinforced Barriers:

B-10NR

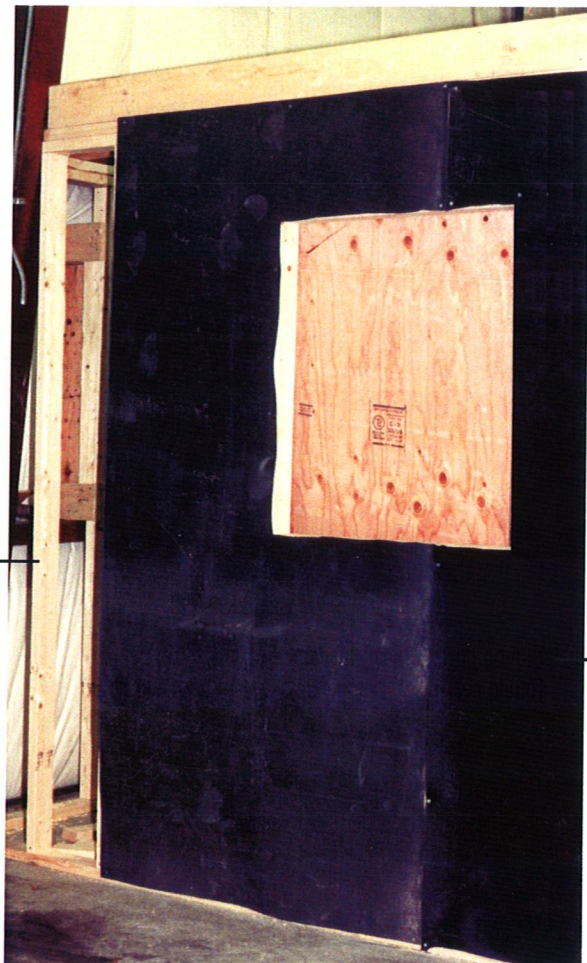
- ◆ 1 lb. PSF **non-reinforced** loaded vinyl noise barrier
- ◆ Low-cost, often used between dry wall and stud construction to substantially improve transmission loss between rooms (see photo)
- ◆ Used as the barrier septum material in acoustical curtain and foam composites
- ◆ An economic acoustical pipe or duct wrap
- ◆ Utilized as a rooftop equipment noise barrier
- ◆ Used as a noise barrier ceiling tile (typically in conjunction with a fiberglass decoupler) above standard suspended ceiling systems
- ◆ Used underneath carpeting to improve transmission loss of floor

B-5NR

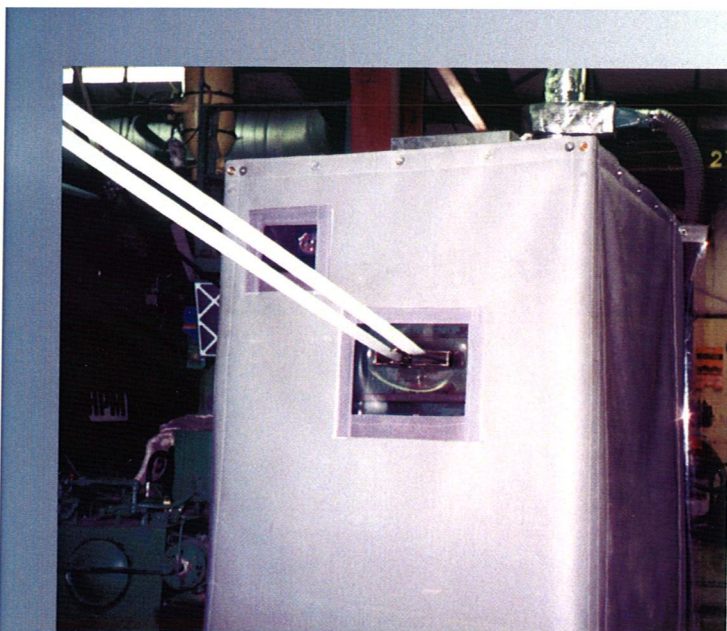
- ◆ 1/2 lb. PSF version of the above
- ◆ Used where weight restrictions require a lighter weight barrier

B-20NR

- ◆ 2 lb. PSF version of the above
- ◆ For applications requiring greater noise reduction, especially at lower frequencies



B-10 NR attached to studs before drywall is installed will significantly reduce noise transmission between rooms.



B-10R Flexible Noise Barrier material fabricated into Acoustical Curtain Panels with grommets at top and hook and loop fasteners sewn along each edge.

Reinforced Barriers:

B-10R

- ◆ 1 lb. PSF **reinforced** loaded vinyl noise barrier
- ◆ High-strength polyester fabric reinforcement is utilized in the center of the barrier to dramatically improve its durability, tear and hanging strength
- ◆ Excellent outdoor UV and weather resistance
- ◆ Can serve as accordion fold access door
- ◆ Used as a free hanging acoustical curtain panel, typically with grommets at the top and hook and loop fasteners along each edge (see photo)
- ◆ When used in combination with a Quilted Fiberglass Sound Absorber, (BBC-13, BBC-13-2" F) can offer STC Ratings up to 32 (See Bulletin SS101)
- ◆ Standard color is gray. Tan and blue are also available

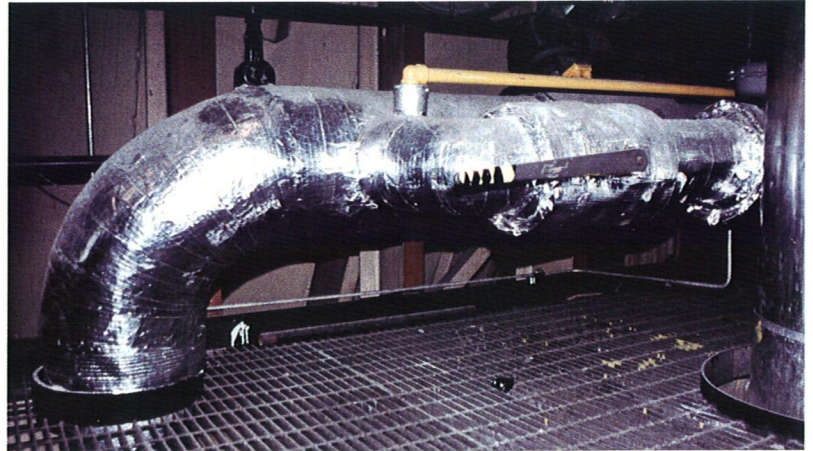
B-5R

- ◆ 1/2 lb. PSF **reinforced** loaded vinyl
- ◆ Same properties as above, utilized where weight restriction require a lighter weight material

Pipe and Duct Lagging:

B-10 LAG

- ◆ 1 lb. PSF reinforced **foil faced** loaded vinyl noise barrier
- ◆ Acoustical wrap for noisy pipes, duct work, valves, heat exchangers
- ◆ Easy to cut, wrap and install with matching lag tape
- ◆ May be combined with quilted fiberglass decoupler to improve acoustical performance, thermal conductivity and lower installation costs
- ◆ **Class A flammability rating requirements per ASTM E-84**
- ◆ Durable reinforced foil facing serves as protective jacket as well as readily accepts matching tape



B-10 LAG/QFA-3 Acoustical Pipe Lag installed on 12" diameter pipe with matching lag tape. See Sound Seal bulletin SS-105 for additional information.



Clear vinyl strip installed on loading dock door allows easy access while offering thermal protection and noise reduction.

Transparent Barriers:

- ◆ Flexible **transparent** barrier materials offer significant noise reduction while allowing for visibility and easy access
- ◆ Also utilized to reduce heat and cold loss between areas
- ◆ Sheet material is often utilized as a view window in Sound Seal Acoustical Curtain Panels
- ◆ CV strip doors are often incorporated into Acoustical Curtain Enclosures for easy access
- ◆ Mounting angles and hardware are also available.
- ◆ Furnished in three standard products:

B-10 CV

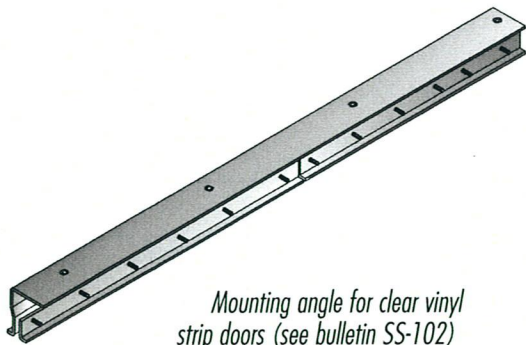
- ◆ 1 lb. PSF
- ◆ 16" wide strips
- ◆ 48" wide sheets
- ◆ Curtain panels with grommets at top and velcro edges
- ◆ Custom-sized window covers

B-7.5 CV

- ◆ 3/4 lb. PSF
- ◆ 12" wide strips
- ◆ 48" wide sheets
- ◆ Custom-sized fabrications

B-5 CV

- ◆ 1/2 lb. PSF
- ◆ 8" wide strips
- ◆ 48" wide sheets
- ◆ Custom-sized fabrications



Mounting angle for clear vinyl strip doors (see bulletin SS-102)

Specialty Barriers:

B-10MB

- ◆ 1 lb. PSF barrier material with a woven-fiberglass cloth facing
- ◆ Typically referred to as "**marine barrier**"
- ◆ Superior fire ratings when installed against bulkheads, etc.

B-10L

- ◆ 1 lb. PSF **lead** sheet
- ◆ Commonly used as a septum product in acoustical composites
- ◆ Utilized where radiation or RF resistance are required in addition to noise reduction

Flexible Barriers

Noise Transmission Loss

Barriers	Noise Transmission Loss (dB) Per Octave Band (HZ)						STC
	125	250	500	1000	2000	4000	
2 lb. PSF	16	22	26	32	35	40	31
1 lb. PSF	13	17	22	26	32	37	26
3/4 lb. PSF	11	16	20	25	30	34	23
1/2 lb. PSF	8	13	17	22	27	31	20

Per ASTM: E 90 (90A)

Physical Properties

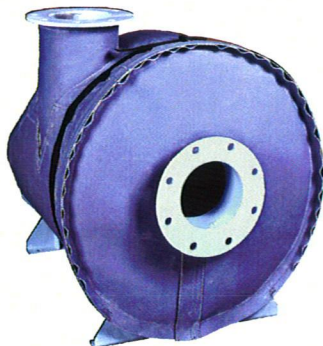
Product	Nom. Thickness (in.)	Nom. Weight lb/sq. ft.	Description	Roll Size	Additional Details
B-10 NR	.107	1.0	Non-Reinforced	54" W x 60' L	See Bulletin SS101
B-5 NR	.042	.5			
B-20 NR	.225	2.0			
B-10 R	.090	1.0	Reinforced		
B-5 R	.050	.5			
B-10 LAG	.090	1.0	Foil Faced	54" W x 30' L	See Bulletin SS105
B-10 CV	.160	1.0	Transparent	16" W x 100' L & 48" W x 60' L	Mounting Hardware Details See Bulletin SS102
B-7.5 CV	.120	.75		12" W x 200' L & 48" W x 60' L	
B-5 CV	.080	.5		8" W x 300' L & 48" W x 60' L	
B-10 L	.020	1.0	Lead Sheet	48" W x 25' L	SS104
B-10MB	.100	1.0	Marine Barrier	38" W x 45' L	

Additional information on tensile, breaking and tear strengths, elongation, chemical resistance, flammability, etc. available upon request.

The test results reported were obtained using standard laboratory procedures recognized by the technical community. The data is valid as a measurement of the material under specific controlled test conditions. However, this data does not represent an accurate indicator of the performance of the material or of the hazards which may exist under actual field conditions.

Distributed By

For OEM
Applications
see Sound Seal
Bulletin SS-203



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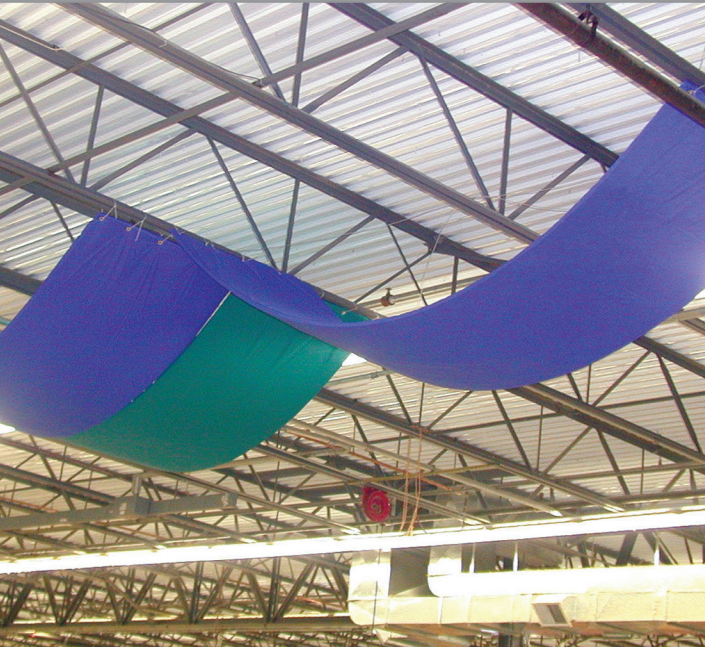


SOUND QUALITY
BY SOUND SEAL

ACOUSTICAL
BANNERS



SPEC DATA SHEET SQ-119



- Low cost, economical banners
- Excellent acoustical performance
- Stitched edges for extra durability
- Custom sizing
- Easy to install
- Wide variety of finishes

CATENARY ACOUSTIC BANNERS

Sound Quality® Catenary Banners are the perfect economical solution to reverberation issues for large spaces. They are easy to install horizontally with the ceiling via grommets. The Catenary Banners are custom made with a wide variety of finishes, sizes and thicknesses available.

THICKNESS

2" Standard (Custom Available)

SUBSTRATES

1.5# PCF Semi-Rigid Fiberglass Core, Standard

EDGE DETAIL

Stitched

FINISHES

Various finishes are available, including:

- PVC
- PVC, Perforated One Side
- Ripstop Nylon - Sailcloth
- Fabrics – Standard is Guilford of Maine



MOUNTING OPTIONS

Grommets, Nickel & Stainless Steel Available
Aluminum Stiffeners

SIZING

Custom sizes up to 4' x 25'

ACOUSTICAL

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
2" w/ PVC Finish	.92	.92	1.01	.85	.38	.25	.80
2" w/ PVC Perforated One Side	1.04	1.00	.99	1.15	1.10	1.14	1.05
2" w/ Ripstop Nylon Finish	.89	.97	1.01	1.02	.59	.32	.90

FIRE RATING

All components shall have a Class A fire rating per ASTM E-84



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