Patrion o Suppor Proposal liquor Lice Date: November 16, 2023 The following undersigned residents of the area support the following liquor license (indicate the type of license such as full-liquor or beer-wine) Fell Liquor to the following applicant/establishment (company and/or trade name) DML Hospitality Group 4c Address of premises: 112 Stanton Street This business will be a: (circle) Bar (Restaurant) Other: The hours of operation will be:

SUN-WED 4pm-1/pm; Thurs/Fri/Set 4pm-12m Sat/Sunday PLEASE NOTE: Signatures should be from residents of building, adjoining buildings, and within 2-blocks on the same street. Other information regarding the license: Address and Apt # (required) Signature 112 STANTON #3 Emmett Montsay 112 Stanton #5 112 Stanton #5 Doug Brennan Nishant Noyar 112 Stanton #5

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19 Mercer Street, New York, NY 10013 (212) 925-1365 acoustilog1@verizon.net

Décember 7, 2023

Mr. David Zimmerman Sammy's 112 Stanton Street New York, NY 10002

Re: New Restaurant Acoustic Issues

Dear Mr. Zimmerman,

Pursuant to your request, I inspected the above premises on December 5, 2023.

#### SUMMARY

You are opening a new restaurant at the above premises. The design of the spaces and sound system will keep sound levels within Noise Code limits. I have provided soundproofing recommendations to prevent transmission of excessive noise to the neighbors.

# DBA VS ONE-THIRD OCTAVE BAND MUSIC LÉVELS

One way that sound levels are often measured is by using the "A scale", the A-weighted decibel scale. This dBA scale (see Noise Code Section §24-231 a1) is the most common type of sound measurement, which represents a summation of middle (midrange) and high frequencies (treble), but largely ignores low-frequency "bass" sounds. Measuring the dBA levels requires only a simple sound level meter. DBA is what the City DEP inspectors usually use, and they normally consider anything above 42 dBA to be unreasonable.

C-weighted decibels or dBC (see Noise Code Section §24-231 a3) are also a measurement of all frequencies, but this method includes the important low-frequency "bass" sounds. However, dBC readings pick up so many frequencies at the same time that they usually do not distinguish between normal background noise and music beats.

One-third-octave band sound level readings (see Noise Code Section §24-231 a2) were also taken, which are measured in decibels, or dB. Sounds with frequencies below 250 Hertz are called bass or low frequencies, which sound like thumping or vibration. This range of low frequencies is addressed in the Noise Code regulations and is the sound most likely to cause neighbor complaints. Bass and drums usually cause sounds in these frequency ranges. These sounds require a complex spectrum analyzer to measure them.

## THE NOISE CODE - MUSIC

§24-231 Commercial music.

(a) No person shall make or cause or permit to be made or caused any music originating from or in connection with the operation of any commercial establishment or enterprise when the level of sound attributable to such music, as measured inside any receiving property dwelling unit:

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This page alone is not a complete report.

- (1) is in excess of 42 dB(A) as measured with a sound level meter; or
- (2) is in excess of 45 dB in anyone-third octave band having a center frequency between 63 hertz and 500 hertz (ANSI bands numbers 18 through 27, Inclusive), in accordance with American National Standards Institute standard \$1.6-1984; or
- (3) causes a 6 dBC or more increase in the total sound level above the ambient sound level as measured in decibels in the "C" weighting network provided that the ambient sound level is in excess of 62 dBC.

# THE NOISE CODE - UNREASONABLE NOISE

- §24-203 General definitions. When used in the New York city noise control code the following terms shall have the following meanings:
  - (62) Unreasonable noise means any excessive or unusually loud sound that disturbs the peace, comfort or repose of a reasonable person of normal sensitivities, injures or endangers the health or safety of a reasonable person of normal sensitivities or which causes injury to plant or animal life, or damage to property or business.

§24-218 General prohibitions.

- (a) No person shall make, continue or cause or permit to be made or continued any unreasonable noise.
  - (a-1) No person shall make, continue or cause to permit or be made or continued any unreasonable noise:
    - (1) for any commercial purpose of during the course of conducting any commercial activity; or
    - (2) through the use of a device, other than a device used within the interior living space of an individual residential unit, installed within or upon a multiple dwelling or a building used in part or in whole for non-residential purposes.
- (b) Unreasonable noise shall include but shall not be limited to sound, attributable to any device, that exceeds the following prohibited noise levels:
  - (1) Sound, other than impulsive sound, attributable to the source, measured at a level of 7 dB(A) or more above the ambient sound level at or after 10:00 p.m. and before 7:00 a.m., as measured at any point within a receiving property or as measured at a distance of 15 feet or more from the source on a public right-of-way.
  - (2) Sound, other than impulsive sound, attributable to the source, measured at a level of 10 dB(A) or more above the ambient sound level at or after 7:00 a.m. and before 10:00 p.m., as measured at any point within a receiving property or as measured at a distance of 15 feet or more from the source on a public right-of-way.
  - (3) Impulsive sound, attributable to the source, measured at a level of 15 dB(A) or more above the ambient sound level, as measured at any point within a receiving property or as measured at a distance of 15 feet or more from the source on a public right-of-way. Impulsive sound levels shall be measured in the A-weighting network with the sound level meter set to fast response. The ambient sound level shall be taken in the A-weighting network with the sound level meter set to slow response.
- (c) Notwithstanding the provisions of subdivision b of this section, where a particular sound

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source or device is subject to decibel level limits and requirements specifically prescribed for such source or device elsewhere in this code, the decibel level limits set forth in this section shall not apply to such sound source or device.

(d) The decibel level limits set forth in this section shall not apply to sound attributable to construction devices and activities.

The sound from music in your space is considered "other than impulsive sound "– see Paragraphs (1) and (2) above. These bass sounds are loudest in the low frequencies and thus, as explained above, are not properly described using dBA readings.

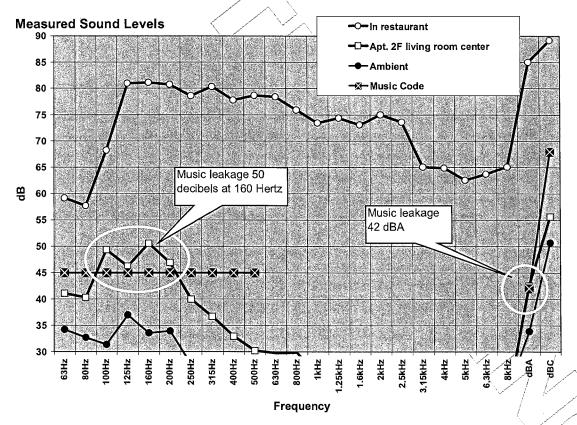
Voices from customers can be evaluated using dBA levels.

Note that Section \$24-218 prohibits "unreasonable noise", not all noise, but DEP inspectors sometimes issue violations based on their opinion rather than any specific decibel reading.

#### **TEST**

A loudspeaker playing music in the restaurant was set to 89 decibels C-weighted or dBC, while the midrange sound was 85 dBA, measured 8 feet from the loudspeaker. The sound level measured in the 2<sup>nd</sup> floor front apartment directly above was 50 decibels at 160 Hertz and 43 dBA. This was at the loudest location in the apartment.

50 decibels at 160 Hertz is 5 decibels higher than the Noise Code limit for music. The 43 dBA is 9 dBA higher than the ambient level in the apartment. See the graph below.



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#### INSPECTION

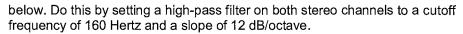
The ceiling is comprised of sheetrock and wood planks. There is a visible hole in one area which should be sealed. Air conditioning ducts are in an enclosed sheetrock soffit which appears to be below the sheetrock ceiling. 4 split-system air handlers are mounted on the walls. The existing speakers are mounted very close to the ceiling.

# RECOMMENDATIONS

# SOUND SYSTEM

- 1. The music level must be controlled effectively in the restaurant. Therefore, an important step is to properly design the sound system. You are planning to have recorded background music as well as an electric piano keyboard instrument. All music must be played through the house sound system, described below.
- 2. Distributed speakers are recommended to provide an even and distributed sound. Small speakers such as Behringer Monitor 1 or JBL Control 1 should be used, with woofers no larger than 6-1/2 inches. Data attached.
  - a. Use 8 small/speakers for this distributed system.
  - b. The speakers must be mounted at least 2 feet below the existing ceiling.
  - c. I recommend mounting the speakers on the walls using resilient mounts. See the attached sketch.
  - d. Run each speaker's wire back to the amplifier to simplify an otherwise complicated hookup. This is called "home run" wiring. Use #18 gauge zip cord for the speakers. Do not buy Monster cable.
  - e. The system should be set up in stereo. Stereo sounds louder to the customers without actually increasing the total sound level. Alternate the speakers left/right.
  - f. Any good commercial stereo power amp of 75 watts per channel or higher, preferably without volume controls, can easily handle all the speakers in the room. This is done using a zone control box. Data attached.
- 3. The sound system will incorporate an equalizer. The equalizer will then feed into a limiter. Both functions can be accomplished with a DBX DriveRack PA2 or similar processor. Installed in the system right before the amplifier and electronically locked with a combination, it will prevent the sound system from exceeding a pre-determined sound level, set by the sound installer. If the sound system is turned up too high, the limiter will activate and guarantee that the actual sound never exceeds the desired maximum.
- 4. If different music is played in certain areas, then each area needs its own processor.
- 5. The existing amplifiers can be used.
  - a. The amplifiers must be set to maximum level during this process so they cannot be turned up further at a later time.
  - b. Set the Stereo Output Limiters to COUPLE both channels together, which makes the Channel 1 controls affect both channels. The rest of the instructions are thus for the left channel only.
  - c. Using the crossover section, attenuate (lower) all frequencies 160 Hertz and

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- d. Set the limiter's Over-Easy setting to 8 and the Threshold control so as to normally limit only 3 decibels while playing the loudest possible music. If the music tries to get louder than the Threshold setting for any reason, the sound will stay at the same volume.
  - Using the processor's crossover level control, set the maximum sound level to 85 dBC, measured 3 feet from any speaker. The sound installer can do this with a simple Radio Shack sound level meter. Set the meter to read "C", and "Slow". This will be a good starting point from which to operate the sound system.
  - ∑ To ensure the accuracy of the meter, you can bring it to my office for calibration.
- g. The DBX unit should be set in conjunction with tests made of noise levels in the neighboring spaces.

## **CEILING HOLE**

6. The hole in the ceiling should be sealed airtight with sheetrock.

#### **WINDOWS**

- 7. The window openings should be sealed.
  - a. Use 2 layers of sheetrock together, screwed onto metal framing.
  - b. The sheetrock must be at least 6" from the window glass.
  - c. The airspace between the glass and the sheetrock should be filled with Thermafiber SAFB, 2.5 pound density, lightly compressed to fill the cavity. Do not stuff in the insulation tightly. Data enclosed.

#### **ACOUSTIC TREATMENT**

- 8. Cover at least 70% of the ceiling area with 1" thick absorption material. This will reduce the midrange sound (dBA levels) of the voices which would otherwise build up in the restaurant. Two materials are shown below.
  - a. Owens Corning SelectSound Black Acoustic Board, not flexible.
  - b. A SelectSound equivalent is SilentCeiling Black, 2" thick 3 lb. density from Sound Acoustic Solutions, 877 399 9697.
- 9. In the front and rear sections of the room, cover at least 50% of the portion of the walls from approximately 5 feet above the floor to the ceiling with 1" thick absorption material.
  - a. A simple method is to use are thick velour or wool curtains, with folds like theatre curtains.
  - b. Provide a sample of the material for me to inspect before choosing the final treatment.

#### **DOORS**

10. The front doors should not be propped open since a small amount of sound will exit onto the sidewalk, which could lead to Noise Code violations, as described below.

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#### THE NOISE CODE - OUTDOOR NOISE

Noise Code Section § 24-244 states,

Sound reproduction devices.

Except as otherwise provided in section 10-108 of the code, no person shall operate or use or cause to be operated or used any sound reproduction device in such a manner as to create unreasonable noise.

No person shall operate or use or cause to be operated or used any sound reproduction device, for commercial or business advertising purposes or for the purpose of attracting attention to any performance, show, sale or display of merchandise, in connection with any commercial or business enterprise (including those engaged in the sale of radios, television sets, compact discs or tapes), outside or in front of any building, place or premises or in or through any aperture of such building, place or premises, abutting on or adjacent to a public street, park or place...

This section is used by inspectors incorrectly. This is section is intended to prohibit music used for "commercial or business advertising purposes", not for accidental street leakage through the front door. Even though the application of the law is wrong, DEP inspectors often issue these violations without even having to measure the sound level, if there is music heard on the sidewalk from a business. You will reduce your chances of getting a violation if you implement the recommendations and do not prop doors open.

If I can be of further assistance, please call.

It is strongly recommended that all complicated construction projects get regular inspection visits at critical times, to make sure the system performs properly. This is an optional service which I can provide. All Acoustilog, Inc.-designed information supplied is for the original client and may not be copied in any way for different projects by any architect, consultant, engineer or other party. Copyright Acoustilog, Inc. ® 2023. All rights reserved. No reproduction of any type permitted without written permission of Acoustilog, Inc.

Yours Truly,

Alan Fierstein

President

acoustilog1@verizon.net

All readings re: .0002 microbar and to Code. Readings taken with Bruel & Kjaer 2250/2260/2270 Analyzer, Bruel & Kjaer 4134, 4135, 4145, 4155, 4165, 4189 or 4190 Microphone, Acoustilog 232A Reverberation Timer. Calibrated to Bruel & Kjaer 4220 Sound

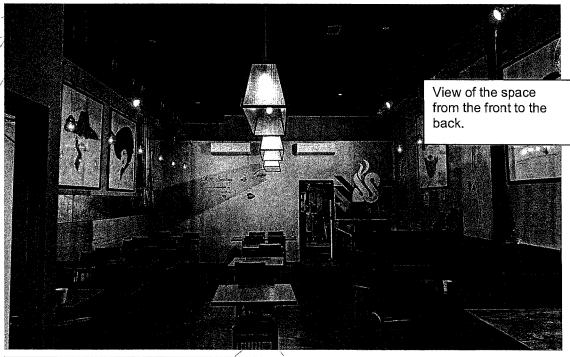
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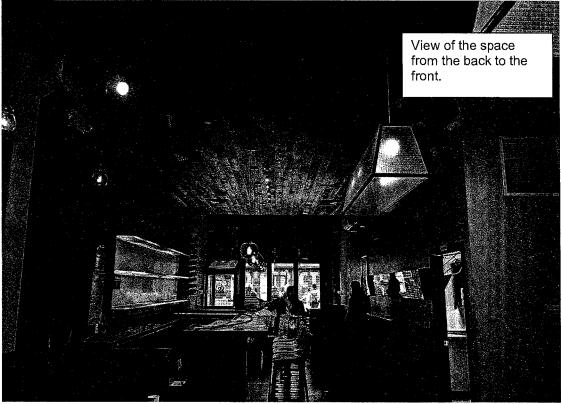
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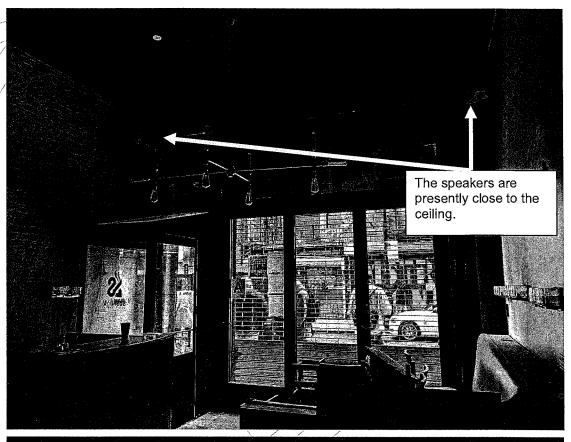
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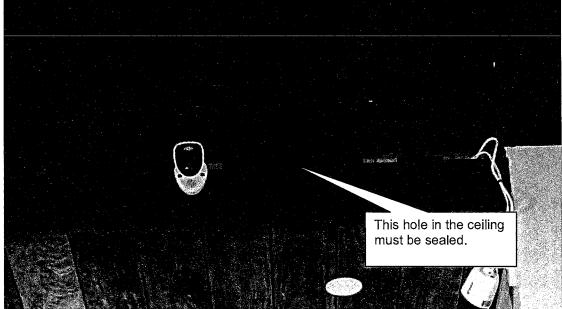
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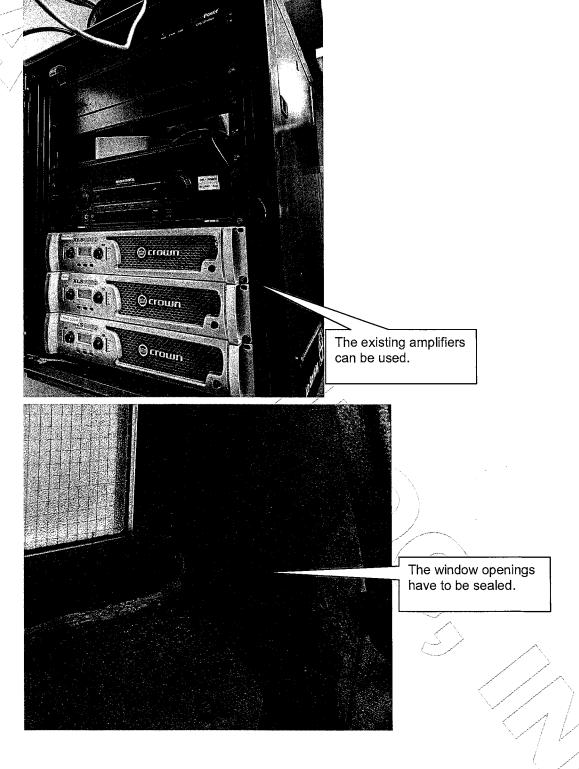


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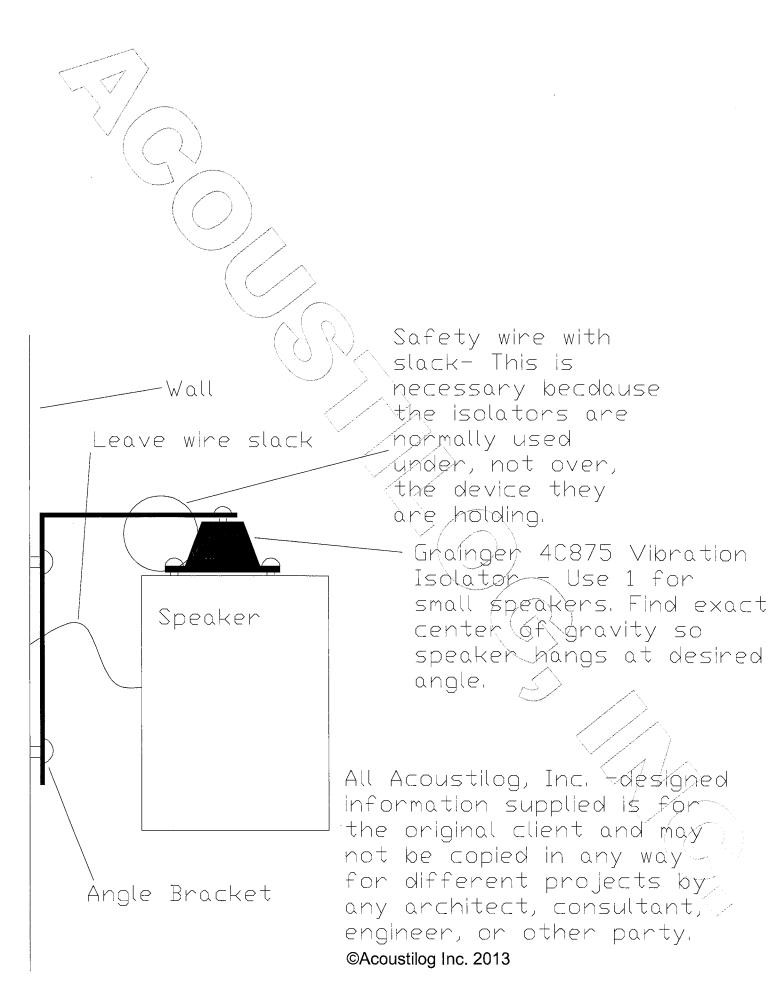




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DNE PROCESSOR

BE COMBINED IN





Larger Images

#### ALL YOU NEED TO GET THE MOST FROM YOUR PA. NOW WITH COMPLETE CONTROL FROM YOUR MOBILE DEVICE

The DriveRack® PA2 provides all the processing you need between your mixer and amplifiers to optimize and protect your loudspeakers. With the latest advancements in dbx's proprietary AutoEQ™ and AFS™ algorithms, a new input delay module for delaying the FOH system to the backline, Ethernet control via an Android®, iOS®, Mac®, or Windows® device, and updated Wizards, the DriveRack PA2 continues the DriveRack legacy of great-sounding, powerful, and affordable loudspeaker management processors, for a whole new generation.





#### AUTOEQ\*\*

New, improved AutoEQ algorithm ensures an extremely accurate, fast, and non-intrusive automatic EQ experience.

With the RTA Mic "listening" to your room, the new, updated DriveRack PA2 AutoEQ algorithm sets speaker levels and room EQ automatically in a matter of seconds. This means room adjustments can now be made very quickly, without subjecting the audience to annoying, lengthy broadcasts of pink noise.

#### ENHANCED AFS™ FEEDBACK ELIMINATION

Enhanced AFS™ algorithm for faster, more precise feedback elimination, without adversely affecting your system's tone.

Nothing turns audiences away like annoying and potentially painful audio feedback. Fortunately, dbx engineers have revisited their already-stellar Advanced Feedback Suppression algorithm and made it work even better. The DriveRack PA2 listens for and anticipates feedback and adjusts speaker output automatically before it even has a chance, while never altering your sound.

#### **UPDATED WIZARD SETUP FUNCTIONS**

Updated Wizards make initial set up easy, while ensuring speaker tunings and other settings are up-to-date.

Wizard functions on the DriveRack PA2 guide you through easy, step-by-step processes to help you get the most from your loudspeaker system. Helps you easily configure level balancing, AutoEQ, Advanced Feedback Suppression, and provides access to built-in and constantly updating speaker tunings from most major speaker manufacturers.

#### AVAILABLE INPUT PROCESSING

- dbx Compression
- › AFS™ (Advanced Feedback Suppression)
- > Graphic EQ
- > 8-Band Parametric EQ (adjusted when using the AutoEQ)
- > Subharmonic Synthesis

#### AVAILABLE OUTPUT PROCESSING

- > Crossover (supports full range, 2-way, and 3-way systems)
- > 8-Band Parametric EOs (used for speaker tunings)
- > dbx Limiting
- > Driver Alignment Delays

# DriveRack PA2

Complete Loudspeaker Management System

MSRP \$824.64 \$399.95 SAVE \$224.991



#### OVERVIEW

FEATURES MARINAL BY DOCUMED TATION DOVIGLOAG SPECIFICATIONS SHEPORTFACE



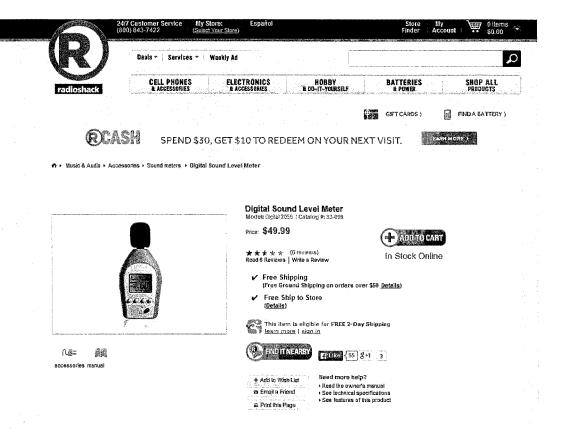






# **Features**

- > All New Setup Wizard
- ⇒ Streamlined AutoEQ™
- > All New AFS™ (Advanced Feedback Suppression)
- > Mobile Control (Android®, iOS®, Mac®, Windows®)
- > dbx Compression
- Graphic EQ
- > 8-Band Parametric EQ (adjusted when using the AutoEQ) Input
- > Subharmonic Synthesis
- > Crossover (supports full range, 2-way, and 3-way systems)
- > 8-Band Parametric EQs (used for speaker tunings) Output
- > dbx Limiting
- > Driver Alignment Delays



# **Product Summary**

#### Fine-tune your audio.

Fine-tune your PA or stereo systems audio response to match the acoustic environment with this Digital Sound Level Meter. It comes with a carrying case for travel and features an easy-to-read display.

- Carrying case protects the meter when traveling
- Easy-to-read display, sound range 30-130db, digit LCD display
- You can fine-tune your PA or stereo systems audio response to match the acoustic environment

Pricing and availability: Please note that all prices are subject to change without prior notice. Prices advertised on this site are for online orders only. Prices on some items may differ from those advertised in RadioShack stores. All merchandise may not be available at all stores, and all stores may not participate in all sales promotions. We recommend you contact the store to confirm product availability and price.

#### **Shipping**

# Usually ships in 1 - 2 business days

In store: <u>Check availability</u> By phone: 1-800-843-7422

#### Manufacturer Warranty

Parts: 12 monthLabor: 12 month

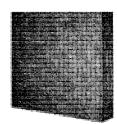


# THERMAFIBER® SOUND ATTENUATION FIRE BLANKETS (SAFB)

# Insulation for unsurpassed sound and fire performance in walls and ceilings

- More fire, sound and thermal tests than any other insulation product.
- (• High density of THERMAFIBER® SAFBs makes them resist sagging and stand up better in stud cavities.
- Enhances fire protection—adds to fire performance of many assemblies.
- Efficient sound performance—adds STCs to wall and floor-ceiling sound ratings.
- Special details—can be used in acoustical ceilings as overlayment to reduce flanking sound.
- "Creased" systems provide additional sound performance through acoustic engineering.

# Description



THERMAFIBER Sound Attenuation Fire Blankets (SAFB) are the best way to stop sound in wall and floor-ceiling assemblies. THERMAFIBER Sound Attenuation Fire Blankets are manufactured from slag, a by-product of iron ore reduction, and naturally occurring rock. Because of this composition, THERMAFIBER Blankets are highly resistant to fire. Thus many of the systems this product is used in have high fire ratings as well as sound ratings. A fire test conducted according to ASTM E119 test procedure showed that THERMAFIBER Insulation remained intact at temperatures in excess of 2,000°F for five hours.

Tests prove that THERMAFIBER SAFB is the best performance value for multi-family residential projects, hotels and motels, offices and retail businesses. The mineral fiber blankets are resilient enough to fit around obstacles, yet are rigid enough to stand up well in stud cavities. SAFBs are available in two nominal densities, 4 pcf (available 1. thick only) and 2.5 pcf. Two types of SAFBs are available, regular and "Creased." Creased SAFBs are 1. wider than regular blankets and are designed to bow in the stud cavities, providing an "engineered" sound performance. For system information on assemblies containing THERMAFIBER Sound Attenuation Fire Blankets, see brochure TF885.

#### Installation

# Sound Attenuation Fire Blanket Application

Install THERMAFIBER Sound Attenuation Fire Blankets in stud cavities of sound-rated partitions and where required to achieve fire-rated design. Friction fit securely between studs. Butt ends of blankets closely together and fill all voids.

# Creased Sound Attenuation Fire Blanket Application

Install Creased THERMAFIBER Sound Attenuation Fire Blankets after gypsum panels are applied to the resilient channel and before panels are applied to the other side of the studs. Insert 17" wide blankets in 16" stud cavities of sound-rated partitions and where required to achieve a fire-rated design. Bow the blankets slightly to fit in the stud cavities. Slit the blankets approximately 1" deep with a sharp utility knife or hook-bill knife to ease the pressure of the blanket against the gypsum panels when they are installed. Butt ends of blankets closely together and fill all voids.

# Floor-Ceiling Application

Install THERMAFIBER Sound Attenuation Fire Blankets between joists in joist cavity or over metal furring channels below joists where required in fire-rated designs.

#### Ceiling Overlayment Application

Install THERMAFIBER Sound Attenuation Fire Blankets over ceiling panels (1-1/2" single or double layer over entire ceiling) (3" over entire ceiling) extending 48" beyond all partitions and tightly fit around all grillage, hangers and other vertical penetrations.

#### **Technical Data**

Notes: Thermal resistance values (R = 1/t) for use in calculating heat transmission coefficients (u) are based on listings in ASHRAE Handbook of Fundamentals. For test data, Thermafiber, Inc. Representatives will provide information on published fire, sound and structural systems designed and constructed according to their published specifications.

THERMAFIBER Sound Attenuation Fire Blankets	4 pcf Nominal Density SAFB	2.5 pcf Nominal Density SAFB			
R-Value, per 1" Thickness	4.2	3.7 \			
"k" @ 75°F (24°C) btu • in./hr. • sq. ft. • °F (per ASTM C518)	0.24	0.27			
Widths	16", 17", 24", 25"	16", 17", 24", 25"			
Length	48"	48"			
Thickness (t)	1"	1-1/2", 2", 2-1/2", 3", 3-1/2", 4", 5", 6"			
Flame Spread (per ASTM E84, Surface Burning Characteristics)	0	0			
Smoke Developed (per ASTM E84, Surface Burning Characteristics)	0	0 /			

#### **Product Data**

#### Specification Compliance

THERMAFIBER Sound Attenuation Fire Blankets meet the following:

- Class A interior finish rating per NFPA 101, life safety code.
- 2. ASTM C665, Type 1, per Federal Specification HH-I-521F.
- 3. ASTM C553 (SAFB Blankets absorb less than 1% moisture by weight and volume).
- 4. ASTM C612, Type 1, per Federal Specification HH-I-558B.
- 5. ASTM E136 (rated noncombustible as defined by NFPA Standard 220 when tested according to ASTM E136).
- Accepted by New York City Department of Buildings (MEA-207-82M). Approved by the New York City Board of Standards & Appeals for use in New York City under Calendar Nos. 35-66-SM, 173-77-SM, 249-74-SM and 34-66-SM.

#### Availability and Cost

THERMAFIBER Sound Attenuation Fire Blankets are distributed throughout the United States and worldwide. For additional information, call Thermafiber, Inc. at 1-888-TFIBER1 (or 834-2371).

# Composition and Materials

THERMAFIBER Blankets are a mineral fiber material manufactured from slag, a by-product of iron ore reduction, and naturally occurring rock. Thermafber blankets contain 85% post-industrial recycle content. This product contains No Asbestos. See MSDS for further information.

Warranty

System performance following substitution of materials or compromise in assembly design cannot be certified and may result in failure of sound and/or fire performance under certain conditions. Products provided by Thermafiber, Inc. are warranted to be free from defects in material workmanship. Contact Thermafiber, Inc. for complete warranty details.

# **Good Design Practices**

- 1. System performance following substitution of materials or compromise in assembly design cannot be certified and may result in failure of sound and/or fire performance under certain conditions. For example, substitution of a low-density glass fiber insulation in place of the THERMAFIBER SAFB will compromise the acoustic balance and therefore reduce the acoustical performance of the system.
- 2. Adjacent assemblies should be designed or selected to be of similar sound control performance.

  Flanking sound paths should be acoustically treated or eliminated. The combined sound performance of the systems between adjacent spaces will be close to that of the lowest performing element.
- 3. Proper application of acoustical sealant\* is critical to effectively seal the wall and reduce sound transmission. For drywall partitions, place a continuous bead of sealant along all perimeter edges between the gypsum wall board panels\* and the surrounding floor, wall and ceiling elements. Do this on each side of the wall. Also, place a bead of acoustical sealant\* around ducts, electrical boxes, sprinkler heads, telephone jacks and any other penetrations.
- 4. Wall Penetrations and Perimeters—Penetrations for windows, HVAC and all wall perimeters must be sealed with acoustical sealant\*. Insulation must be used behind medicine cabinets and other wall-inserted devices to prohibit passage of sound.
- 5. When penetrations, such as telephone jacks, electrical outlets, pipes, etc., occur on the opposite sides of a demising wall, offset them by at least one stud cavity.
- 6. When outlet boxes occur on the opposite side of a demising wall, the backs and sides of the outlet boxes should be acoustically caulked with acoustical sealant\*; acoustically caulk any gap surrounding the box as well.
- 7. Vapor Retarders—Vapor retarders normally are placed on the warm side of the wall to prevent moisture from entering the stud cavity. Actual placement of moisture barrier should be specified by a qualified professional engineer, based on local climatic conditions.
- 8. Ceilings—Insulation should be carefully fitted around—not over—light fixtures. Improperly covering light fixtures with insulation causes heat to build up, possibly resulting in fire. Note that THERMAFIBER Sound Attenuation Fire Blankets may be used in a wide variety of acoustical applications, including those in occupied spaces and ceiling air plenums.
- \* See UL Directory for list of approved manufacturers.

# Submittal Approvals:

#### Job Name

# Contractor

For further information on these products, including nonstandard sizes, contact Thermafiber, Inc. at 1-888-TFIBER1 (or 834-2371).

#### Trademarks

THERMAFIBER and THE NAME IN MINERAL WOOL are trademarks of Thermafiber, Inc.

#### Note

Products described here may not be available in all geographic markets, Consult your local sales office or representative for information.

#### Notice

THERMAFIBER, Inc. shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. THERMAFIBER liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing within thirty (30) days from date it was or reasonably should have been discovered.

#### Safety First!

Date

Follow good safety and industrial hygiene practices while handling and installing products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read Material Safety Data Sheets and related literature on products before specification and/or installation.

# Health Aspects

For Health and Safety information see Material Safety Data Sheets (MSDS) and North American (nosulation Manufacturers Association (NAIMA) Health and Safety Facts for Rock and Slag-Wool Insulation; Document #63





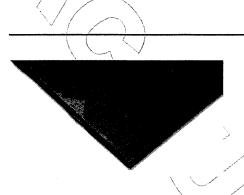




# Submittal Sheet



# SelectSound™ Black Acoustic Board



# **Superior Acoustical Performance**

SelectSound Black acoustic board provides excellent acoustical performance for multiplex theaters, sound studios and performing arts centers. Depending on specified thickness, SelectSound Black acoustic board absorbs up to 100% of the sound striking its surface.

SelectSound Black acoustic board helps provide the highest quality audio reproduction by reducing sound reverberation within spaces. Sound transfer from space to space is also noticeably reduced.

#### **Durable Material Composition**

SelectSound Black acoustic board is dimensionally stable and will not shrink or warp. The board's resilient composition resists job-site damage. When necessary, the durable black mat facing may be cleaned by vacuuming. SelectSound Black acoustic board, composed of inorganic glass fibers, will not rot or mildew and is noncorrosive to steel, copper and aluminum.

# Fast, High Quality Installation

Lightweight and resilient, SelectSound Black acoustic board is easy to handle, fabricate and install. Both stick pins and adhesives can be used to secure boards to drywall, concrete block or precast concrete.

# Size Availability

SelectSound Black acoustic board is available in 48" x 96" size. SelectSound Black acoustic board can also be supplied precut in sizes up to 48" x 96" to fit specific dimensional requirements. Precut boards improve labor productivity by speeding installation.

# Black Core with Dark Black Finish Surface

SelectSound Black acoustic board has an all-black core wih a deep black mat finish with very low light reflectivity. The black surface is ideal for eliminating screen light reflections and preventing insulation from showing through most surface treatments.

# **Design Considerations**

Acoustical performance of interior surfaces can generally be improved by increasing acoustical material thickness. *SelectSound* Black acoustic board can be specified for use in conjunction with other Owens Corning acoustical materials to provide additional performance.

Owens Corning also manufactures *SelectSound* Black theater blanket. This roll product is ideal for use behind fabric on theater walls, in sound studios and performing arts centers.

#### **Applicable Standards**

The noise reduction coefficients of SelectSound Black acoustic board were derived from tests conducted in accordance with ASTM C 423 on a Type A mounting.

# **Installation Procedure**

SelectSound Black acoustic board can be installed on drywall, concrete block or precast concrete using impaling pins or appropriate adhesives.

When installing insulation with adhesive, follow adhesive manufacturer's recommendations for surface preparation and pattern.

When using impaling pins, follow the pin manufacturer's recommendations for surface preparation, location and amount of pins. Pin length should be selected to ensure tight fit. Where subject to physical contact, protect pin tips.

Keep product dry during shipping, storage and installation.

# **Physical Property Data**

Property	Test Method	Value				
Compressive strength (minimum) at 10% deformation at 25% deformation	ASTM C 165	25 lb/ft² (1197 Pa) 90 lb/ft² (4309 Pa)				
Water vapor sorption	ASTM C 1104	<3% by weight at 120°F (49°C), 95% R.H.				
Fungi resistance	ASTM C 1338	Meets requirement				
Nominal density	ASTM C 303	3.0 pcf (48 kg/m³)				
Corrosiveness	ASTM C 665 Corrosiveness Test	Will not cause corrosion greater than that caused by sterile cotton on aluminum or steel*				
Surface burning characteristics	ASTM E 84 CAN/ULC-S102**	Flame spread 25** Smoke developed 50				

<sup>\*</sup> When wet, coated surfaces in contact with galvanized steel may cause discoloration of the sheet metal.

<sup>\*\*</sup> The surface burning characteristics of these products have been determined in accordance with UL 723 and CAN/ULC-S102-M. These standards should be used to measure and describe the properties of materials, products or assemblies in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or fire risk of materials, products or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment which takes into account all of the factors which are pertinent to an assessment of the fire hazard of a particular end use. Values are reported to the nearest 5 rating.

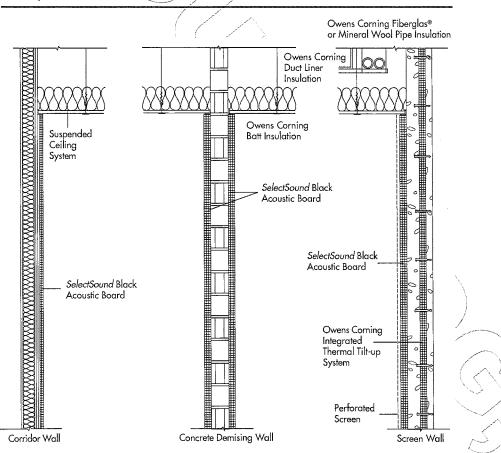
# SelectSound™ Black Acoustic Board

# Acoustical Performance

Product Type & Thickness		D سار سا	ensity 3) Mounting	125	)ctave	Band	Center	Freque	encies, H 4000	z NRC	Thermal Resistance* R-Value (hr•ft²•°F)/Btu
1" Mat faced /	3.0	(48)	A A	.06	.25	.62	.91	.99	.98	.70	4.3
2" Mat faced	√3.0~	(48)	A	.18	.71	1.12	1.12	1.03	1.02	1.00	8.6

Derived from test conducted in accordance with ASTM C 423, Type A mounting (material placed against a solid backing such as a block wall).

# **Conceptual Details**



For CSI type sample specification, please contact your local Owens Corning representative.



Owens Corning reserves the right to change this product as needed.

## OWENS CORNING WORLD HEADQUARTERS

ONE OWENS CORNING PARKWAY TOLEDO, OHIO, USA 43659

1-800-GET-PINK www.owenscorning.com

SelectSound™is a trademark of Owens Corning.

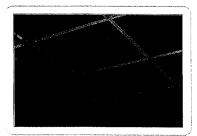
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# SilentCeiling Black [SCB]

Home > Category > SilentCeiling Black > SilentCeiling Black [SCB]

## An effective and affordable way to construct an acoustical tile ceiling

Create an acoustic tiles ceiling with SilentCeiling Black. An effective and affordable fiberglass, grid ceiling tile finished with a crisp, matte black fabric. For use in both residential and commercial applications, SilentCeiling creates a "disappearing" black acoustical tile ceiling with excellent sound absorption. Achieve NRC values of .75 by easily installing this lightweight grid ceiling tile. A spec-equivalent for Owens-Corning SelectSound Black Acoustic Board.



#### SilentCeiling Benefits

- Effective Sound Absorption: Eliminate unwanted ceiling boundary reflections and control excessive room reverberation. SilentCeiling makes acoustical tile ceilings visually and audibly "disappear."
- Easy Installation: Available as a 2'x2' or 2'x4' grid ceiling tile.

  Install a custom acoustical tile ceiling by cutting to size with a utility knife or shears. Suspended grid ceiling tile installs in a standard drop ceiling grid. SAS offers all the supplies needed to install an acoustic tiles ceiling.
- Low-Cost: Compare our low price and excellent performance acoustic tiles ceiling SAS offers you the sound of silence within your budgeti

## SilentCeiling Specifications:

Product Line	Description	Package	Covers		
SCB-2403	2'x4' panels, 3lbs/cuft	10 panels	80 sqft		
SCB-2203	2'x2' panels, 3lbs/cuft	20 panels	80 sqft		

#### **Acoustic Performance**

	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
Suspended in drop ceiling grid*	0.33	0.32	0.73	0.91	0.99	0.98	0.75
As above +R-19 fiberglass overlay*	0.75	0.98	0.99	0.92	1.00	0.99	0.98
Against ceiling	0.06	0.25	0.62	0.91	0.99	0.98	0.70

<sup>\*</sup>E-400 (suspended grid) mounting. Plenum acoustics and grid distance below ceiling determine final absorption characterístics.

Download the SilentCeiling Black Product Sheet