



## Summary

### Acoustiblok “Quieting the World”

For over 20 years Acoustiblok, a NASA Spinoff-listed company, has been a leader in developing and manufacturing products for noise control utilized around the world. The company has received the top award in the British House of Commons for sound abatement and was recently shown across the globe on National Geographic TV highlighting its unique contributions towards reducing noise pollution.

#### Primary products include:

- Acoustiblok® viscoelastic polymer based soundproofing material
- Acoustifence® outdoor sound barrier fence
- All Weather Sound Panels® sound blocking/absorbing panels
- QuietFiber® sound absorbing material
- Quiet-Cloud® industrial sound panels
- Acoustiblok Wall-Cover® post-construction soundproofing

Acoustiblok products are used in industrial, residential, commercial, and marine sectors worldwide. The company’s products are made and sourced in the United States.

Acoustiblok Inc. ships products to more than 60 countries through a network of stocking distributors in the United States, on five continents across the globe.

For more information on the company go to [www.acoustiblok.com](http://www.acoustiblok.com)

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## Lahnie Johnson

Acoustiblok's President and Founder

Lahnie Johnson is the driving force behind Acoustiblok worldwide. From humble beginnings and a life dedicated to the pursuit of innovation, he has spent over 40 years building successful companies around the simple concept, "give the world what it needs." While working in the aerospace industry in the '60s he saw the need for higher quality sound reproduction in our lives. He used his technical expertise to build a business based on audio, an incredible establishment that spanned over four decades. He engineered and created sound systems for concerts, night clubs, homes, cars, boats, and planes. In the height of the home cinema craze his company built dedicated cinemas that would rival commercial ones.

This is when it came to him; the world was faced with yet another need, the need to isolate sound and prevent it from bleeding into surrounding environments. Johnson was always aware of how sound propagates and travels, but had never concerned himself with isolating it. So, he spent months researching and studying all the practices in use today to isolate sound/noise. The summation of his research was to completely isolate sound; this was expensive, involved, and required an immense amount of engineering on all fronts of construction.

This led him to another question...What if a simple, fast, and affordable sound isolation technique could reduce airborne



sound/noise by say 85-90%? This was the answer. Johnson took an idea that has been around for centuries and perfected it. He experimented and tested with hundreds of materials, techniques, and applications for an acoustical solution. Acoustiblok soundproofing material was the result! With over 400 UL classifications, no technical expertise required for installation, and the ability to add to an existing design, Acoustiblok revolutionized the building industry when it came to sound isolation.

Johnson is an engineer, visionary, and entrepreneur. He continues to inspire his team with a passion for advancements in acoustical isolation. His genuine concern for creating better sounding environments drives him to continue to innovate new products and educate the world on the effects of sound in our everyday lives.

### **What is Acoustiblok Corporation's foundation?**

Acoustiblok Corporation, a NASA Spinoff listed company, was founded by the president of the company, Lahnne Johnson, over 20 years ago in Tampa, Florida, and currently supplies noise control products to over 60 countries worldwide. After working in the aerospace industry during the historic "race for space", Johnson developed a passion for the science of acoustics; inventing solutions to acoustical and environmental noise problems led him to develop the soundproofing material Acoustiblok®, the company's core product.



Johnson's commitment to research and development have continued to produce cutting-edge noise reduction products that are recognized by the building and construction industries all over the world. Acoustiblok has received the top award in the British House of Commons for sound abatement and was recently shown across the globe on National Geographic TV highlighting its unique contributions towards reducing noise pollution. The company's products are considered green/sustainable, and made and sourced in the United States.

### **What is Acoustiblok® material?**

Acoustiblok soundproofing material is a thin advanced sound barrier material that is placed between a noise source and the noise receiver. It's a propriety viscoelastic flexible dense polymer material with a high density mineral content that contains no barium, lead, or asbestos. It's also UV resistant, and impervious to water and mold.



Adding just one thin 1/8 inch thick layer of Acoustiblok material to a standard stud wall can result in reducing more sound than 8 inches of poured concrete (independent certified lab test). Acoustiblok is a result of years of experimentation and testing to reach the perfect balance of flexibility vs. stiffness without incorporating barium. Acoustiblok material weighs about one pound per square foot and is Underwriters Laboratories (UL and ULC) classified for over 400 different floors, wall, ceiling assemblies in both the United States and Canada.

There are thousands of applications for Acoustiblok soundproofing material in many sectors including the industrial, commercial, residential and marine areas. The company's website highlights numerous successful projects shared by its customers across the world.

### **What are the company's other primary products?**

In addition to Acoustiblok soundproofing material, the company has patented numerous other products that are specifically designed to address many types of noise problems:

## All Weather Sound Panels®

Acoustiblok's All Weather Sound Panels have a reputation in the industry as a very effective solution for difficult noise issues such as pumps, HVAC's/chillers and generators because of their unique properties. All Weather Sound Panels are not just ordinary barriers; they are a combination of layers of Acoustiblok and Quiet-Fiber. They not only stop sound (STC 32), but also absorb sound (NRC 1.00), the highest absorption.

Johnson originally designed the patented All Weather Sound Panel to withstand the harsh environments of offshore drilling rigs. The panels are typically 4' x 8' and 4' x 10', and are considered to be the strongest sound panels anywhere. The special hurricane model is tested to withstand wind loads of over 270 mph (more than a category 4 tornado).

They are entirely welded aluminum, washable, hydrophobic, and 0 smoke/flammable. Easily stored, 50 panels can be stacked within a ten foot height.

## Acoustifence®

Originally designed and used for noise isolation on offshore drilling rigs, Acoustifence is a thin 1/8th inch, 6' x 30' (3mm x 1.83m x 9.14m) heavy mineral filled, viscoelastic sound deadening material that easily attaches to chain link and most other types of fencing. Having black anodized brass eyelets every six inches on the top edge and some on the bottom, the material allows easy hanging or attaching to the fence.



Acoustifence is currently used in commercial, industrial and residential outdoor applications that require sound mitigation such as loud generators, pumps, heavy equipment—even barking dogs. Acoustifence material is extremely strong and is engineered to withstand harsh outdoor environments like roadways, highways and construction sites where full exposure to dirt, grease, oil, mold, or even being driven over can happen.

Considered green and environmentally friendly, Acoustifence is 100% recyclable, does not contain barium, lead, fiberglass or asbestos, and is UV-resistant, impervious to water and mold. Dirt, grime, and graffiti, can also easily be removed compared to other surfaces. Acoustifence is available in black or green shades.

## QuietFiber®

QuietFiber is a simple, versatile solution to many noise problems. Areas of high noise levels including sound reverberation (a reechoed sound) can be resolved easily and economically by introducing QuietFiber into as much of the area as is possible.

The amount of noise reduction in highly reflective rooms will be directly relative to how much QuietFiber material can be installed



into the room. QuietFiber has the highest noise absorption rating possible (NRC 1.00) and exceeds fiberglass in sound attenuation.

Quiet Fiber can also be hung on any wall or hidden underneath curtains or tapestries, and on top of shelves or tabletops to provide noise absorption. It has also been used decoratively in clubs, restaurants, private residences and other spaces needing a noise reduction solution to work with the space's existing décor.

QuietFiber is also considered environmentally-conscious; 100% recyclable, hydrophobic, UV tolerant, does not support mold and is virtually fireproof. Having a UL rating of "0 smoke" and "0 flame," it more than meets any fire codes and is entirely made in the USA.

### **Acoustiblok-Wallcover®**

Many people find out they need soundproofing after construction of the walls is already complete. Since the most effective noise deadening material has always been applied to the studs under drywall, the only option for post construction noise abatement before Acoustiblok-Wallcover was invented, was to remove the drywall, change out electric sockets, and make other changes that require demolition and construction of new walls in order to properly install soundproofing within the wall.

Acoustiblok-Wallcover allows anyone to easily add Acoustiblok sound deadening material to the existing wall without the need to add a second layer of drywall construction. While Acoustiblok-Wallcover is more of an initial investment than the standard Acoustiblok material, it is far less expensive and takes up far less floor space than additional walls and drywall methods.

The product consists of a three-layer composite that is extremely durable and flexible. It's fire retardant, paintable and can easily be covered with any texture finish. Most often used in the commercial and residential sectors.



### ***What is involved in the process of reducing noise?***

Each situation tends to be unique and understanding the principles of acoustics and knowledge of the surrounding construction and/or machinery is vital. Acoustiblok is very unique in that it employs acoustical and vibration engineering personnel with extensive infield experience who use state-of-the-art diagnostic and prediction tools and then recommend solutions utilizing the different types of products the company manufacturers.



One of the most truly revolutionary tools Acoustiblok is currently pioneering is the "Real-Time Video Imaging System" (ARTVIS™). This leading-edge system not only allows one to catch sight of sound for the first time, it also helps in revealing modal transitions of resonance in buildings and structures that a standard spectrum analyzer does not reveal. Acoustical data collection and assessment which in the past may have taken hundreds of hours to compile, and

even then much being conjecture, can now be visually observed and measured with a significantly higher degree of confidence within hours.

While Acoustiblok's investment in the system is over \$200,000 each, the savings to the client in terms of money and time are incalculable as one can now quiet the precise noise source rather than the whole building. Acoustiblok has successfully used the ARTVIS™ system on numerous projects worldwide.

### ***What are the main benefits that come along with soundproofing?***

There are numerous benefits to reducing noise; a happy, healthy home, a safer work environment for employees, fewer on-the-job accidents, speech privacy security, increased focus and concentration in the classroom, higher resale home values, less neighbor complaints, and compliance with OSHA, HIPAA, and other regulatory agencies to name a few.



In addition, the WHO has documented seven categories of adverse health effects of noise pollution on humans. Noise pollution not only leads to serious hearing damage, but it has also been linked to lowered productivity, decreased communication skills, insomnia and other sleep disorders, anxiety, heart arrhythmia and more.

Noise has recently been in the news as a serious issue in the sale of homes. A home where measures have been taken to reduce noise is an important selling point to potential buyers especially in more urban areas and homes close to airports.

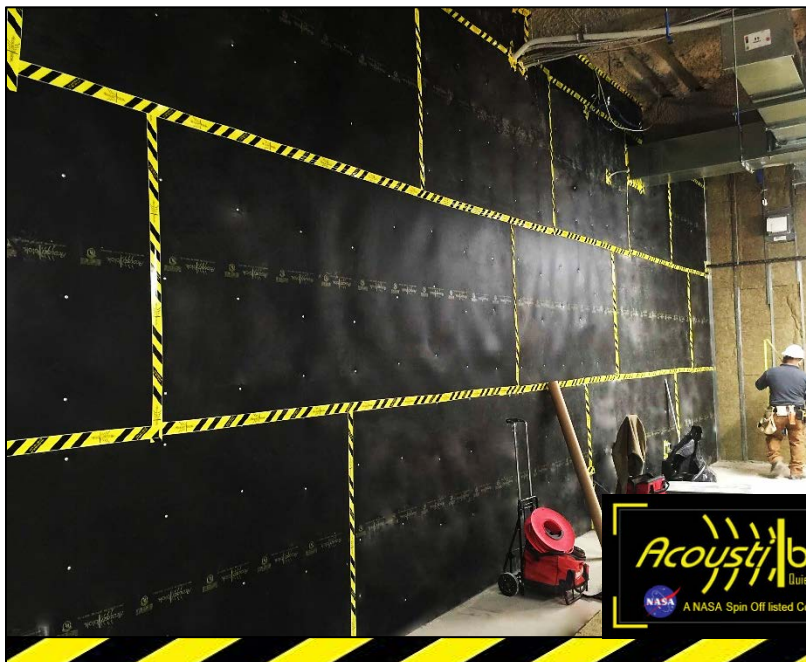
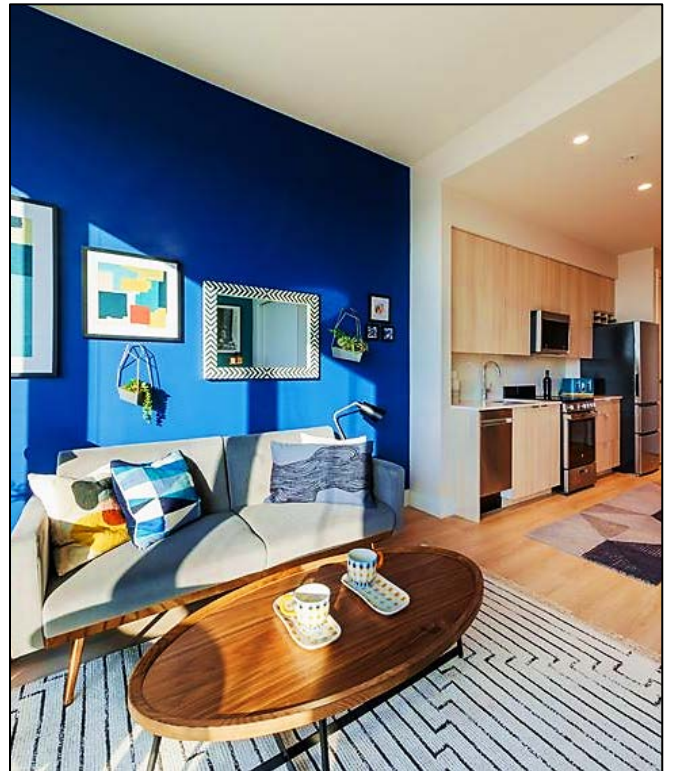
Considered environmentally-friendly, Acoustiblok's products have proven benefits in health and medicine, transportation, public safety, consumer goods, energy and the environment, and industrial productivity.

### ***What is the best way to get in contact with the company?***

Acoustiblok has an experienced, fulltime public relations director who will work closely with you and get you the information you need. If you have comments or questions, or would like to be on our media news distribution list, feel free to contact us:

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Acoustiblok was contacted about providing sound insulation for 88 Regent Street, a 32-storey luxury reinforced concrete superstructure with a glass envelope being constructed in Jersey City, New Jersey. This mixed-use multifamily building maximizes views of Lower Manhattan by creating setbacks on the upper levels giving each unit a window facing the World Trade Center. After discussing the issues with a Senior Acoustiblok Consultant, they decided on Acoustiblok's award-winning Blok16 material (when surveyed, noise is consistently the #1 reason given by tenants for why they leave). The Blok16 system was installed in the demising walls of the building to reduce the transmission of sound between each unit as well as the building structure itself. Blok16 is unique in that it does not stop or absorb sound, but rather the heavy 1/8-inch thick very limp material actually transforms the acoustical energy into internal inaudible friction energy as it moves with the sound waves (virtually the same process and results as lead without the environmental problems or costs). According to the customer, they were delighted with the results. Eco-friendly and 100% recyclable, Acoustiblok (STC26) is UL and ULC classified for use in over 400 wall and floor/ceiling assemblies. (Blok16 is a barium-free propriety formula of Acoustiblok Inc.).





## Acoustiblok® (Blok16®) –T-Pain (Hamilton AV) Recording Studio, Atlanta, GA



Acoustiblok was contacted by T-Pain, a Grammy award-winning Rap singer, songwriter and record producer (Nappy Boy Entertainment) about creating the ideal acoustical environment in his new studio, Hamilton Audio Visual, located in Atlanta. Blok16 was installed in the walls and ceiling to establish the sound quality needed for world class recording production. Blok16 is unique in that it does not stop or absorb sound, but rather the heavy 1/8-inch thick very limp material actually transforms the acoustical energy into internal inaudible friction energy as it moves with the sound waves. And unlike additional drywall or other solid rigid materials used for sound reduction, Blok16 allows the room to be a damped, expandable “acoustical envelope” with far less reflections. T-Pain was thrilled with the acoustics in the new studio and looks forward to recording hit music there for his fans worldwide. Acoustiblok has worked with renowned studios around the world helping them to create the state-of-the-art acoustics necessary for professional filming and recording. These include: The BBC, Paint Hall Studios, UK’s Pinewood and Leavesden studios, Aurora Films, and many more. (Blok16 is a barium-free propriety formula of Acoustiblok Inc.)



The Ritz Carlton contacted Acoustiblok for help developing a solution to the bothersome chiller noise behind the restaurant at their Amelia Island Resort in Florida that was disturbing nearby high rise condo residents. To resolve the problem, Acoustiblok designed an enclosure system using patented All Weather Sound Panels. AWSP's (STC up to 37 and NRC-1.00 at < 2.5" thick) were selected because they are both sound-blocking and sound absorbing. Originally designed for offshore drilling rigs, the high sound absorbency of the panels substantially brings down the acoustical energy around the chillers by absorbing much of the sound inside the enclosure, while the Acoustiblok® composite in the panels provides an outstanding sound isolation barrier. The enclosure included removable panels to allow access to the equipment and custom louver panels to facilitate air flow in and out of the enclosure while maintaining the substantial noise reduction. All elements of the enclosure were modeled using 3D CAD technology and hand built to exacting specifications. The sound panels were also powder-coated with a custom color to blend in with the resort's color scheme. According to the resort, they were thrilled with the results; standing next to the enclosure, there was no measurable increase in the noise level when the chillers were running and the response from the condo residents was overwhelmingly positive. The sound panels (tested to withstand up to a 367-mph wind load) are entirely welded aluminum, washable, 0-smoke/flame and hydrophobic. In addition, they are virtually impervious to water, humid salt air, UV, chlorine air and harsh chemicals. Learn more: <https://www.acoustiblok.com/2021/04/30/c2c-ritz-carlton-noise-enclosure/>





## (Patented) Thermablok® Aerogel Blanket Insulation Airbus A320-200 Aircraft – Commercial



An enterprising company looking to convert the fuselage of a grounded A320-200 passenger aircraft into an office workspace and apartment dwelling contacted Thermablok for help with the insulation, due to the fact that the aerogel in Thermablok is patented and the least compressible of all aerogels. After discussing the numerous issues with an experienced Thermablok Consultant, they decided on Thermablok Aerogel Blanket Insulation. Aerogel, considered the highest insulating material known and one of the lightest solids, was successfully used by NASA for insulation purposes on the space shuttle, Mars Pathfinder and other rovers, as well as STARDUST spacecraft missions to combat extreme temperature environments. To properly insulate the enormous aircraft, it took a large quantity of the product (see photo below); multiple layers of Thermablok Aerogel Blanket Insulation were installed inside the fuselage. Once completed, the company was delighted with the results. Made in the USA, Thermablok is 100% recyclable, impervious to moisture/mold, and unaffected by age. Green, energy-conscious architects and builders are currently incorporating this new NASA aerogel technology into projects designed to save energy and reduce CO2 emissions. Utilized by the military, NASA, Apple, Google, Stantec, Siemens, Kiewit, Turner, Clark and many others in retrofit and as well as new construction projects; Thermablok is THE ultimate breakthrough in insulation technology.



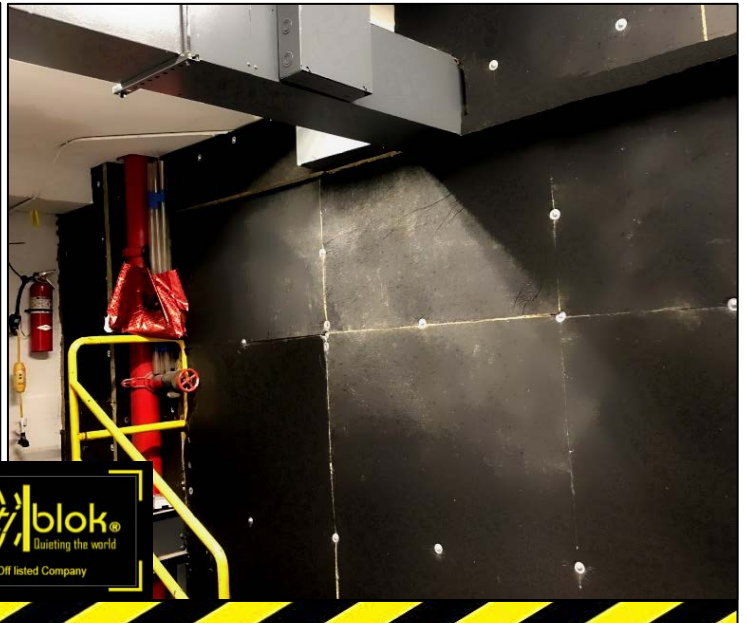


## QuietFiber® – Manhattan Condo Elevator Machine Room – Commercial



Made in USA  
For over 20 years

99 John Street in Manhattan is a historic New York building (25 stories) designed by Shreve, Lamb and Harmon, the Architects responsible for The Empire State Building. Built in 1933, it was recently renovated into luxury Deco apartment condominiums. The problem was the highly reflective elevator machine room noise was so loud it was disturbing the residents and the visitors. After discussing the acoustic issues, Acoustiblok recommended non-fiberglass QuietFiber (QF2). High sound absorbcency QuietFiber is specifically engineered to tackle the frequencies of sound that are critical for noise reduction (QF is predominately used to reduce sound reflections in industrial generator rooms). Once cut to size, QuietFiber can easily be concealed and secured in place almost anywhere. QuietFiber is UV tolerant, totally hydrophobic (will not absorb water or moisture), and specifically designed for maximum (NRC 1.00-1.25) noise absorption. In addition, it will not support mold or mildew, and can work in temperatures above 180-degrees. QuietFiber is UL fire rated for floor, wall and ceiling applications, 100-percent recyclable and made in the USA. According to the customer, the installation of the black-faced QuietFiber went up quickly and easily onto the elevator room walls; they were very pleased with the results. No further noise complaints have been received.



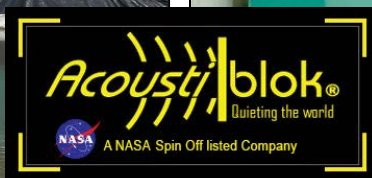
## (Patented) Green Acoustifence® – Indian River Lagoon, FL – Commercial



Acoustiblok was contacted by East Coast Fence & Guardrail along with Gator Dredging of Clearwater, FL about providing an outdoor noise barrier for the environmentally critical Indian River Lagoon \$26.5 million restoration project in Florida. The project involves dredging and de-mucking dozens of canals, which produces a lot of high-volume noise near Satellite Beach and Ocean Front residential communities. The dredged muck/sand /sediment is pumped to the 6-acre dewatering site shown below where it is mechanically and passively dewatered. Once final dewatering is completed, the nutrient-rich soil materials will be hauled west of I-95 for agricultural use. The county met with the hundreds of homeowners and it was agreed that a sound suppression fence was to be installed around the 4,000 linear ft. area to keep down the high levels of noise. After discussing the situation with an Acoustiblok consultant, they decided on the company's green shade of the patented Acoustifence outdoor acoustical barrier because it blended in so well into the surrounding tropical landscape.

As this was a very broad setting, Acoustiblok consultants utilized the company's revolutionary ACOUSTICAL REAL-TIME VIDEO IMAGING SYSTEM (ARTVIS™) to determine the ideal fence/berm placement based on noise localization and sound analysis. ARTVIS is able to do what microphones and sound meters cannot do, it actually allows you to "see" sound in real time.

The Acoustifence was easily installed onto a chain-link fence that was built atop a six-foot high berm. After the Acoustifence was installed, neighbors said they were thrilled with the noise level reduction. Acoustifence is made and sourced in the USA, environmentally friendly, UV-resistant, and 100% recyclable. Only 1/8-inch thin, Acoustifence material was recently tested at Hurricane Engineering/Test Lab to withstand up to a 200-mph wind load. (Acoustifence is a barium-free proprietary formula of Acoustiblok Inc.)



[www.acoustiblok.com](http://www.acoustiblok.com)

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