

Product Name

All Weather Sound Panels®

For Manufacturer Info:

Contact:

Acoustiblok, Inc.

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Product Description

Basic Use

Acoustiblok All Weather Sound Panels are used to control problems with noise and are engineered specifically to withstand the most rigorous outdoor and industrial environments.

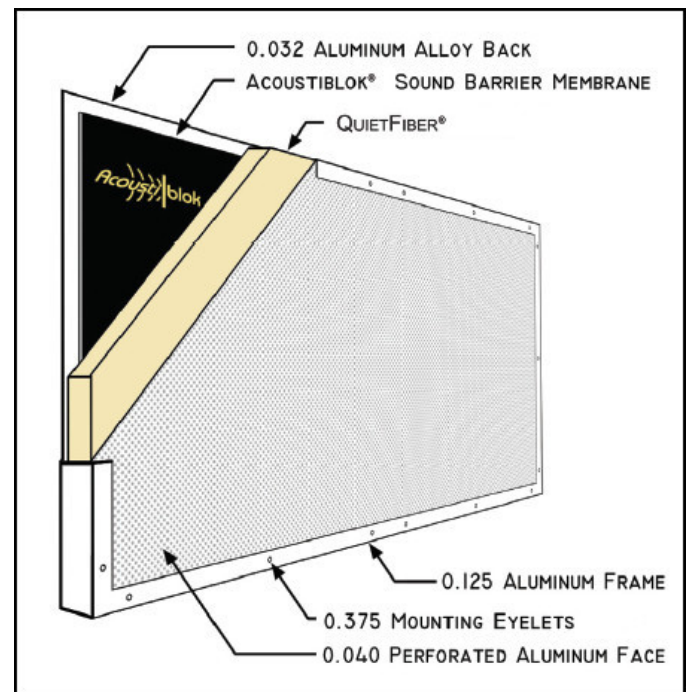
Acoustiblok All Weather Sound Panels

Acoustiblok All Weather Sound Panels are encased entirely in welded aluminum, so water, moisture, humid salt air, salt water, dirt, dust, constant ultraviolet light, chlorine, corrosion and most harsh chemicals are not a problem for this product. The panels are very durable, washable with a hose, and can be used in hundreds of areas and applications.

Easily movable, they need not be permanent and may be stored in harsh environments without harm from the elements.

All Weather Sound Panels include an internal layer of U.L. classified sound isolation material plus a

specifically engineered 2" thick weather-proof hydrophobic sound absorbing material called QuietFiber.



AWSP Cutaway

Benefits:

- Effectively reduces interior sound
- Over 300 UL Classifications
- Easy to install
- Resistant to UV, dirt and water
- Resistant to corrosion, mold and mildew

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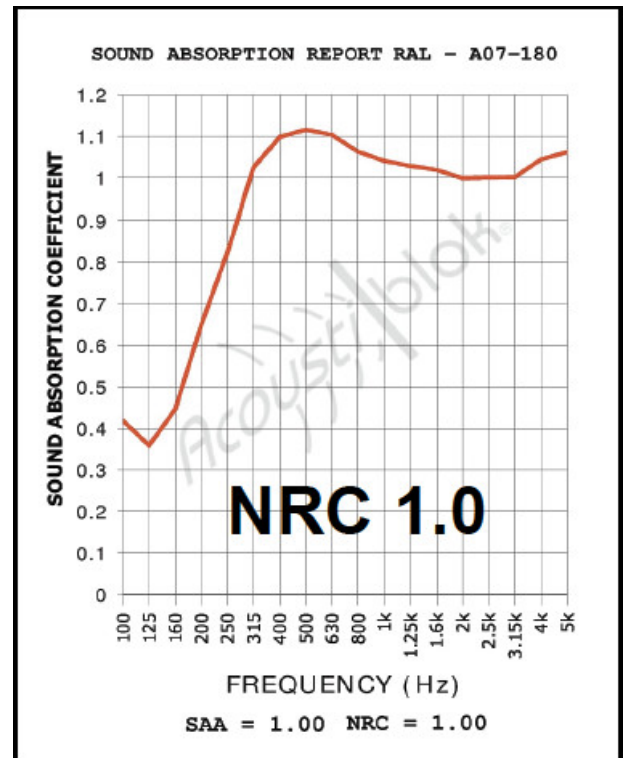
Acoustiblok All Weather Sound Panels continued...

Extreme dust conditions can disable conventional sound absorbing systems. The Industrial & Hurricane model All Weather Sound Panels® are available with an acoustically transparent stainless steel dust filter (5 to 10 microns), which solves this problem for the mining industry, outdoor use in desert areas and other applications where dust is a concern. Acoustiblok Panels are extremely durable and are currently being used by the United States Army in the Middle East.

These panels are not just “sound absorbing” but also “sound blocking”. This allows one to not only absorb sound but also stop the sound from penetrating through the panel, a very meaningful advantage over conventional “sound absorbing” panels which stop sound reflections but are poor sound barriers.

Low frequencies (from 30Hz to 100Hz) represent the most difficult problem for sound blocking. The annoying bass in music is predominately 40Hz to 80Hz and conventional sound barriers do dramatically less sound blocking below 100Hz. However, because of the Acoustiblok barrier material built into each of the All Weather Sound Panels, they actually increase the sound blocking from 100Hz on down (see test results) and are beneficial for difficult sound reduction tasks.

Acoustiblok All Weather Sound Panels achieve high STC and NRC ratings. They have been specifically designed to withstand outdoor exposure in full sunlight, extreme weather conditions and harsh industrial environments. (An NRC of 1.0 is the highest sound absorption rating possible)



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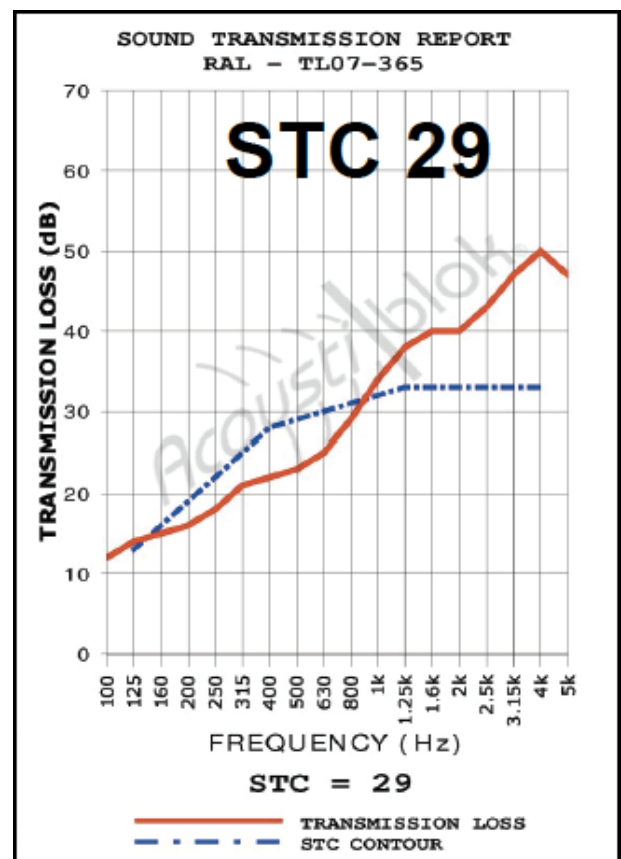
Sound Transmission Class (STC)

Sound Transmission Class (STC) is a single number that represents the sound blocking capacity of a partition such as a wall or ceiling.

STC numbers are often called out in architectural specifications, to assure that partitions will reduce noise levels adequately. For performance similar to laboratory test numbers, it is necessary to adhere closely to the construction materials and techniques used in the tested partition.

STC is calculated by comparing the actual sound loss measured when 18 test frequencies pass through a partition, with fixed values for each STC level. The highest STC curve that the measured sound loss numbers fit under, determines the STC rating of the partition.

STC calculations emphasize sound frequencies that match the human voice. A high STC partition will block the sound of human speech and block noise that interferes with human speech. To estimate high and low frequency performance, consult the Sound Transmission Loss graph included in STC test reports. Impact Insulation Class (IIC) measure transmitted impact noise and are specified for floor-ceiling assemblies only.



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Physical Properties

- Barium free
- Noise Reduction Coefficient (NRC) – 1.00 (maximum possible)
- Minimum STC 29 per ASTM E90-02 & ASTM E413-87
- Minimum sound attenuation 24 dBA @ 100 Hz & 16dBA @ 40Hz
- Basic dimensions: up to 48" x 120" x 2.423", ± 0.125" – custom sizes available
- Frame Construction: 0.125" all welded, corrosion resistant aluminum, mill finish, eyelets: 0.375" (18 each on 4' x 8' panel)
- Front Face: 0.040 corrosion resistant aluminum allow, perforated
- Back Face: 0.032 corrosion resistant aluminum allow, mill finish
- Color: aluminum
- High UV resistance
- No fungal or algal growth and no visible disfigurement, per ASTM D3273 and ASTM D3274 (rating=10)
- UL Std 723 fire resistance: Flame Spread 0, Smoke Developed 0
- Weight: 104 lbs. (8' Panel)



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