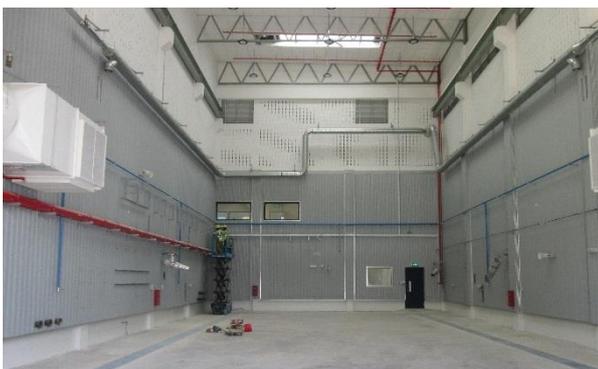
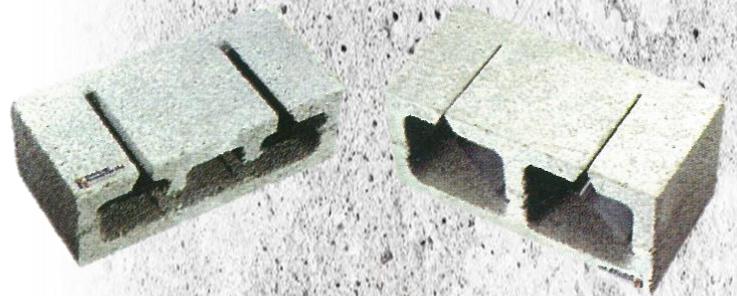




dB Acoustics Pte Ltd
delivering Best sustainable acoustic solutions

SOUNDBLOX

Sound-Absorbing Concrete Masonry Units



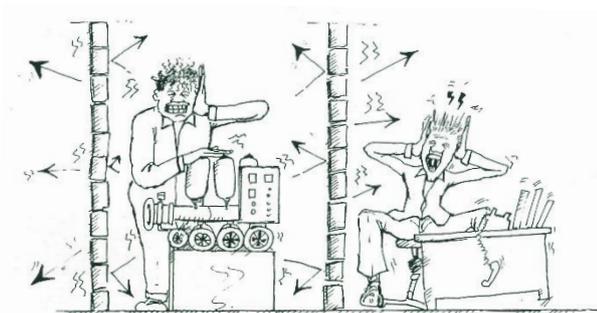
*The
Soundest Solution
To Acoustic Imperfections*

Introduction to Soundblox

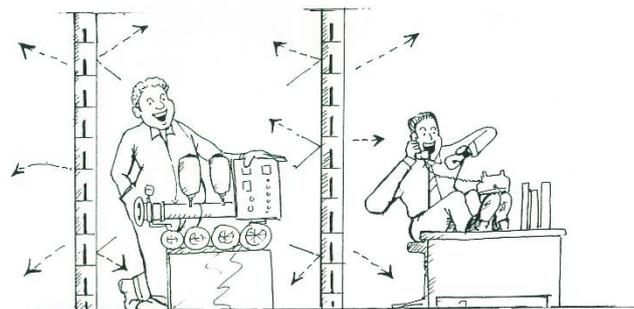
Soundblox provides an ideal solution to acoustical correction and noise control problems commonly encountered in the industrial building and mechanical equipment rooms. Soundblox has been used in many countries worldwide for many decades. It is manufactured in Malaysia under license by Perangsang Remuda Sdn Bhd, employing patented moulds in automatic block-making machines, thereby ensuring uniform quality and acoustical efficiency of each Soundblox unit.

How and Why Soundblox Works

Soundblox derive their excellent sound absorption from a unique cavity-slot resonator construction that functions as a damped (Helmholtz) resonators – employing the same principle of sound absorption as that used in automobile mufflers. In effect, the specially designed metal septa which reflects the higher frequencies has two resonators in each block cavity. Tuned to different frequencies on octave or more apart, these dual resonators greatly widen the frequency band where very high sound absorption is obtained. This level of absorption is extended even further in the Type RSC units by the use of fibrous fillers and sequential cavities moulded right into the blocks. In addition to sound absorption, Soundblox walls also have a superior sound transmission loss performance rating when compared to walls or ordinary hollow concrete block of similar composition.



A hard wall surface can reflect and amplify the noise within the room. These noises can also be transmitted through the wall.

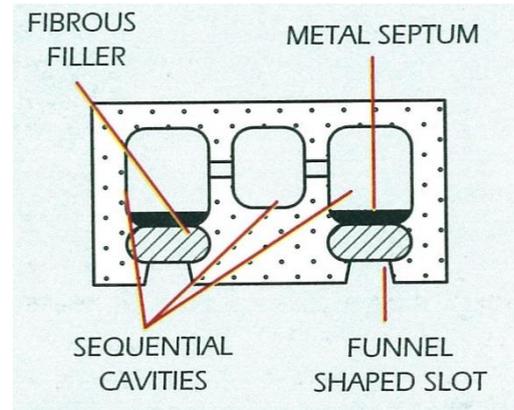


Soundblox has the 2-in-1 function:

1. With Soundblox, the noise in the room will be effectively absorbed thus reducing the noise level within the room.
2. Soundblox also reduces the noise transmitting through the wall.

Soundblox Type RSC

Sequential Cavity units including flared slots, metal septa, and fibrous filler. Type RSC incorporates multiple cavities for substantially superior sound absorption across the entire audio range. Available in 150mm thickness with nominal face size of 200mm x 400mm.



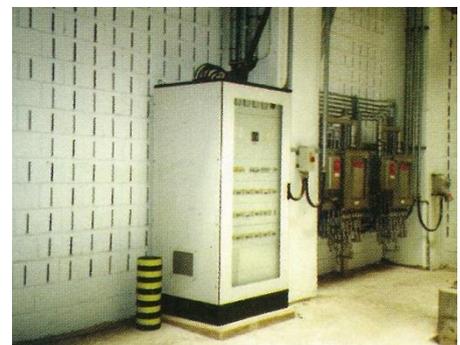
Benefits of Soundblox

Superior sound absorption and transmission loss properties

- Serves as 2-in-1 construction – a partition wall with built-in sound absorption, eliminating the need for a separate acoustic treatment
- Saves labour, cost, and construction time
- Suitable for both indoor and outdoor settings, or wet and dry applications
- Tough and durable
- Able to withstand high impact and abuse
- Fire rated up to 2 hours tested in accordance to BS 476: Pt 22 testing standards
- Washable and maintenance free
- Easily constructed and use interchangeably with ordinary hollow concrete blocks
- Aesthetically rugged, either in bare or painted finish

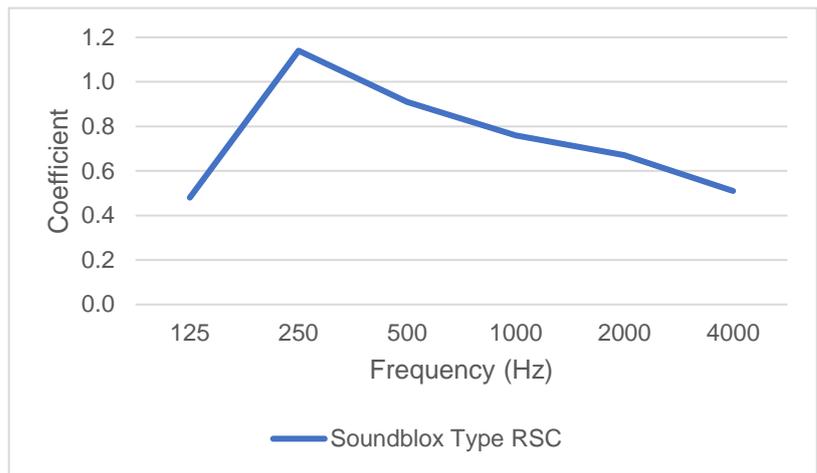
Areas Where Soundblox Should be Considered

- Gymnasiums / Sports Halls
- Auditoriums
- Multi-Purpose Halls
- Mechanical Equipment Rooms
- A.H.U. Rooms
- Generator Rooms
- Factory Production Areas
- Hangars
- Subway and Subway Stations
- Tunnel
- Highway Noise Screens
- Radio and Television Studios
- Many other outdoor and indoor areas where noise control is required



Sound Absorption Coefficients

Surface		Painted
Exposed Slots / Cavities		2/3
Frequency	125	0.48
	250	1.14
	500	0.91
	1000	0.76
	2000	0.67
	4000	0.51
	NRC	0.85

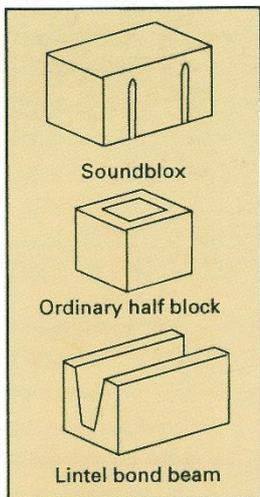


Sound Transmission Class (STC)

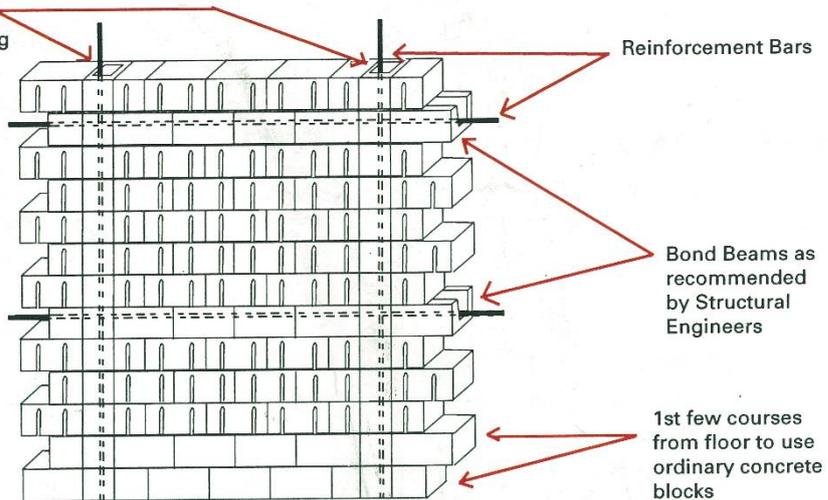
Thickness	Soundblox Type RSC	Ordinary Hollow Concrete Block
150mm	45	43

The sound transmission class value shown were determined in accordance with ASTM methods by ETL Laboratories in Cortland, NY. The Soundblox wall was sealed on the unslotted side using two coats of THOROSEAL before testing. Actual installed performance may vary.

Soundblox in Reinforced Masonry



Stiffeners using half blocks. Spacing as recommended by Structural Engineers



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