



ACOUSTICA® 'HELM HOLTZ' BLOCK ABSORBER INSERTS

Combining High Frequency & Low Frequency Absorption

Acoustica® 'Helm Holtz' Block Absorber Inserts combine excellent acoustic absorption and sound transmission loss capabilities.

While other walling materials reflect noise, adding to the original noise source, Acoustica® 'Helm Holtz' Block Absorber Inserts control both low and high frequency noise, combining acoustic performance with attractive and aesthetic design.

Acoustica® 'Helm Holtz' Block Absorber Inserts are used for a wide range of industrial and commercial acoustic applications, including theatres, auditoriums, cinemas, churches, radio and television stations, schools, factories, workshops, plant rooms, indoor sports centres, shopping centres and anywhere where reverberated noise is a problem.

When high frequency noise is to be absorbed, specially designed inserts are placed within the 'Helm Holtz' cells (Fig 1), allowing the absorption of sound across a range of frequencies.

Acoustica® 'Helm Holtz' Block Absorber Inserts are compatible with Series 150 bond beams and part size blocks.

Acoustica® 'Helm Holtz' Block Absorber Inserts combine the high transmission loss benefits usually associated with a dense,

Acoustica® 'Helm Holtz' Block Absorber Inserts: 180 x 150 x 50 mm

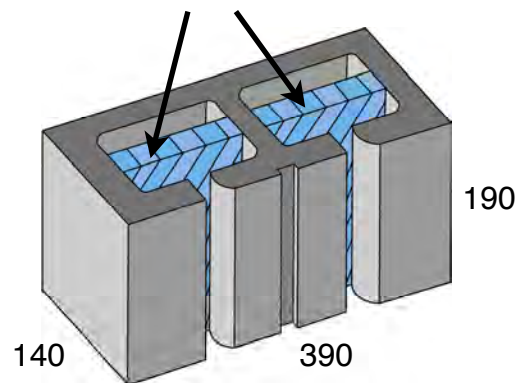


Fig 1

non-porous material (such as a concrete block) with excellent sound absorption capabilities. Consequently Acoustica® 'Helm Holtz' Block Absorber Inserts create a very low radiated sound level and effectively control both high frequencies and irritating low frequency sounds.

Maximum absorption is provided by Acoustica® 'Helm Holtz' Block Absorbers Inserts in a frequency range of 80 Hz to 500 Hz, peaking at 1.0 at 200 Hz and providing absorption of 0.6 at 100 Hz

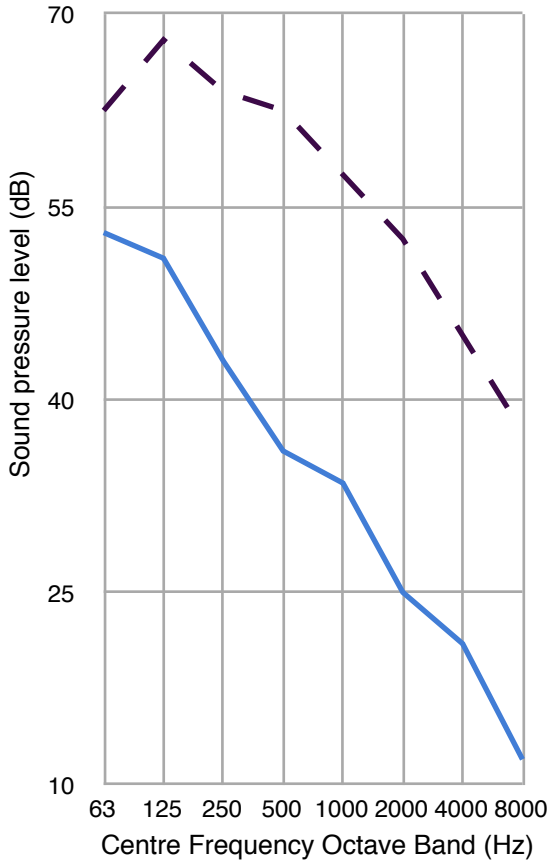
Unlike fibreglass inserts, Acoustica® 'Helm Holtz' Block Absorber Inserts will not break down over time. They are asbestos free, will not sustain mould or vermin, and will not absorb odours. Acoustica® 'Helm Holtz' Block Absorber Inserts are completely non-toxic.

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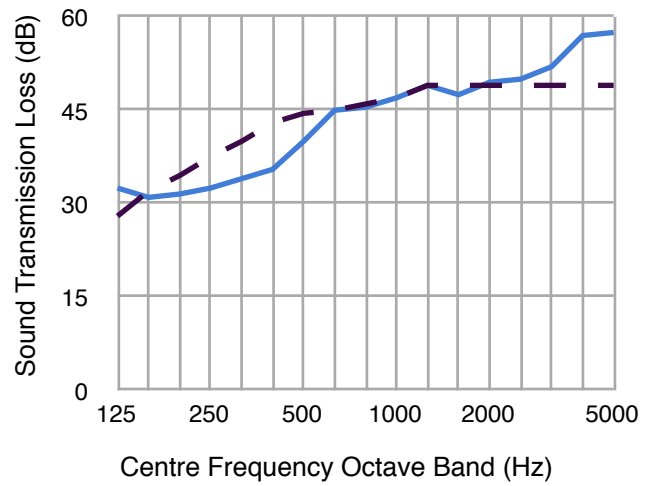
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Octave Band Analysis of Noise Level from large distribution transformer before and after fitting Acoustica® 'Helm Holtz' Block Absorbers with Inserts



Sound Transmission Characteristics of Acoustica® 'Helm Holtz' Block Absorbers with Inserts

— Rw Contour Line
— Acoustica™ 'Helm Holtz' Block Absorber Test Results



— Before Construction of Acoustica™ 'Helm Holtz' Block Absorber Enclosure
— After Construction of Acoustica™ 'Helm Holtz' Block Absorber Enclosure

