MITE SYSTEM

www.decibelinternational.com

MUTE SYSTEM is thin point connected soundproofing system for walls and ceilings.

The system is easy to mount via specially designed anti-vibration **DClox** element, patented in the EU. **DClox** point connection ensures less than 1% contact area between the soundproofing panels and the existing partition thus minimal sound transmission.

In comparison to the first generation of MUTE SYSTEM, where the contacting area was around 98%, the new MUTE SYSTEM DClox is a breakthrough innovation with contacting area below 1%.

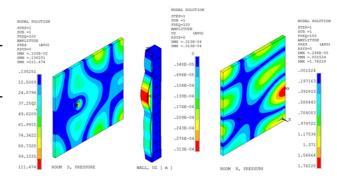
INNOVATION **DClox DClox** is a patented fastener specially designed for the installation of MUTE SYSTEM soundproofing panels. The innovative fasteners are made from special elastomers, making them an effective vibro insulation point connection between the existing partition wall and the panel. Their geometry reduces the rate of sound transmission and minimizes the contacting area between the soundproofing panels and the existing wall to below 1%.



MUTE SYSTEM is a product developed and refined over the years by the R&D department of DECIBEL.

The main acoustical principle used in the system is mass + spring + mass as in the electromechanical analogy. DECIBEL engineers have created an extra thin and 4 times more effective system, mounted via specially designed antivibration **DClox** fastening elements.

What allows DECIBEL to ensures the quality and efficiency of the system is that its soundproofing parameters are simulated using FEM and after that verified with laboratory tests.



Recommended accessories for increasing the soundproofing performance



MUTE SYSTEM Types

Туре	Thickness	Additional insulation	
MUTE 23	2.25 cm	+ 9 to 11 dB	
MUTE 33	3.25 cm	+ 12 to 14 dB	
MUTE 63	6.25 cm	+ 15 to 18 dB	

Air borne sound reduction index

Type of existing wall	Rw with Mute 23	Rw with Mute 33	Rw with Mute 63
Hollow Brick Wall 12 cm (Dwall - 850 kg/m³)	51 dB	54 dB	58 dB
Hollow Brick Wall 25 cm (Dwall - 750 kg/m³)	59 dB	62 dB	65 dB
Aerated concrete blocks 15 cm (Dwall - 390 kg/m³)	52 dB	54 dB	56 dB
Aerated concrete blocks 25 cm (Dwall - 390 kg/m³)	57 dB	59 dB	60 dB

DECIBEL Ltd is an international startup company established in 2012 by PhD engineers, focused entirely on the development and creation of innovative products for sound insulation and acoustics. The company has its own manufacturing plant and laboratory allowing the team of specialists to improve the quality of the products everyday.

DECIBEL's deep knowledge and expertise are in the field of building acoustics, noise and vibration control, audio and visual systems.

CONTACTS

Headquarters:
DECIBEL Ltd.
60 Teodosii Tarnovski Str., Sofia
T: 00359 24271196
office@decibelinternational.com
www.decibelinternational.com