

MUTE SYSTEM

The best-selling soundproofing solution created by DECIBEL



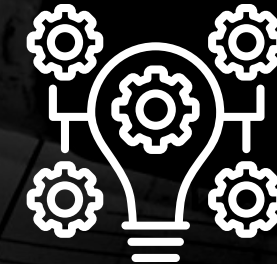
Extremely thin

Soundproofing panels starting from 1 inch



Effective noise insulation

Additional soundproofing from 9 to 18 dB depending on panel thickness



Innovative Technology

Less than 1% of the contact area between the existing surface and the panel



Functionality

Can be used for both retrofitting and in entirely new buildings



Quick and easy installation

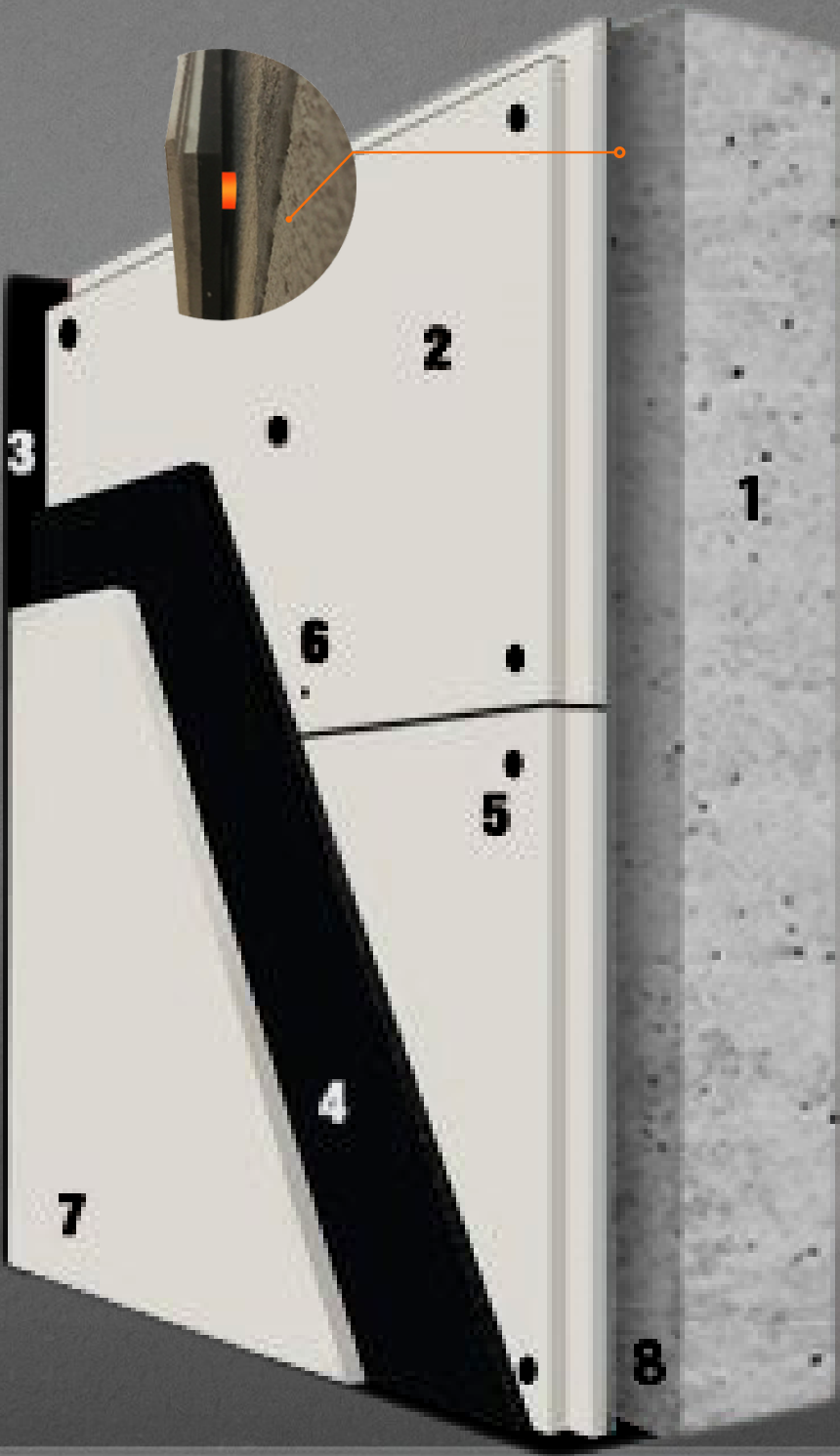
No special tools or training needed.
No demolition work is needed



Multy - purpose

Can be installed on all types of walls. Drywall, Concrete, brick or wood.

MUTE SYSTEM™



MUTE SYSTEM™ is a thin, point-connected soundproofing system for walls, developed and refined over the years by the R&D department of DECIBEL. MUTE panels come in 1", 1½" or 2½" thickness options and are mounted with 5 specially designed anti-vibration DCclox™ patented, fastening elements.

The innovative fasteners are made of 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%.

Weighted airborne sound reduction index (Rw) is tested in accordance with EN ISO 10140-2:2010.
Fire resistance classification of B, s1 - d0 is in accordance with EN ISO 13501-1:2018.



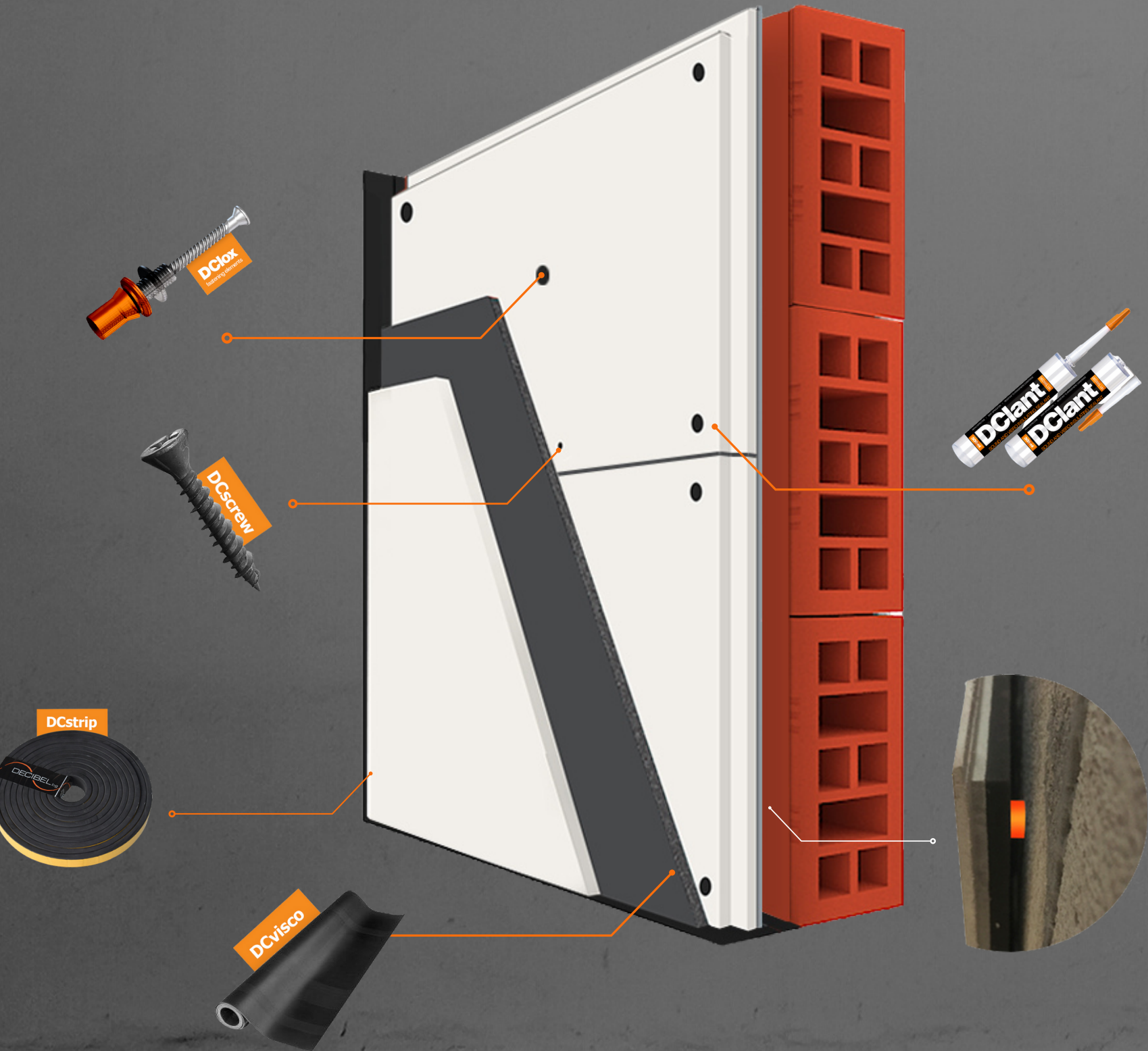
- 1. Existing wall
- 2. MUTE SYSTEM™
- 3. DCstrip™ banding tape
- 4. DCvisco™ membrane
- 5. DCclox™
- 6. DCscrew™
- 7. Gypsum board - finishing Layer
- 8. Air gap

Airborne sound reduction index Rw

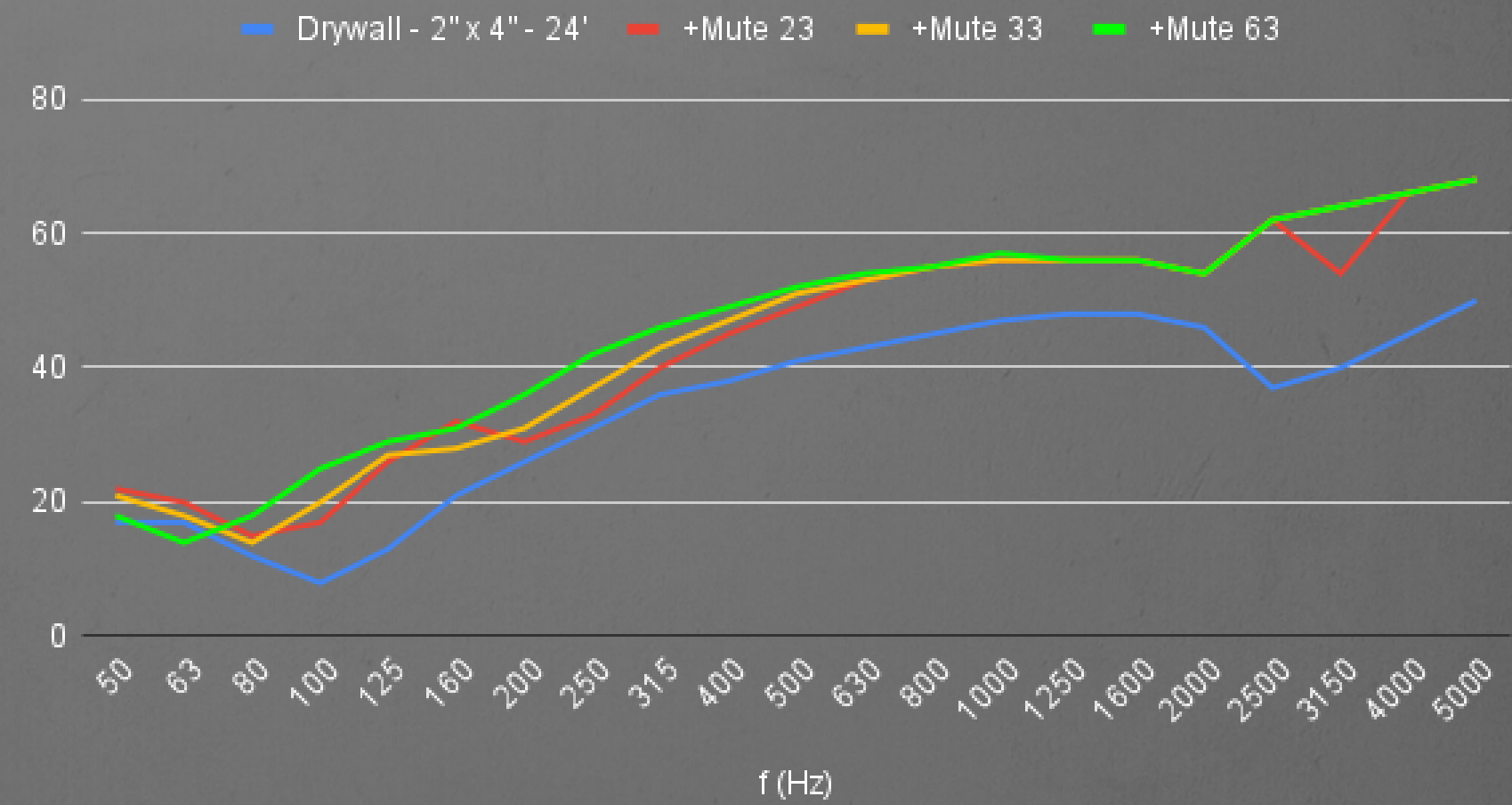
	MUTE 23	MUTE 33	MUTE 63
Airborne Sound Reduction*	+ 9 to 11 dB	+ 12 to 14 dB	+ 15 to 18 dB
2" x 4" wood studs, 16 o.c. 5/8 drywall on both sides, STC	42	48	50
2" x 4" wood studs, 24 o.c. 5/8 drywall on both sides, STC	47	49	52

*The accessories add additional sound reduction

MUTE SYSTEM™



Sound reduction index



Technical information & Packaging

	MUTE 23	MUTE 33	MUTE 63
Panel dimensions	40" x 48" x 1"	40" x 48" x 1½"	40" x 48" x 2½"
Full system thickness	1½"	2"	3"
Panel weight	38 lbs	40 lbs	43 lbs
Optimal quantity per pallet	46 pcs (600 sq. ft.)	46 pcs. (600 sq. ft.)	18 pcs (232 sq. ft.)
Pallet Dimensions / weight	50"x45"x47" / 1800 lbs	50"x45"x63" / 1870 lbs	50"x45"x51" / 840 lbs

ACCESSORIES



DClox™ is a patented fastener specially designed for the installation of MUTE SYSTEM soundproofing panels. The innovative fasteners are made of 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%.



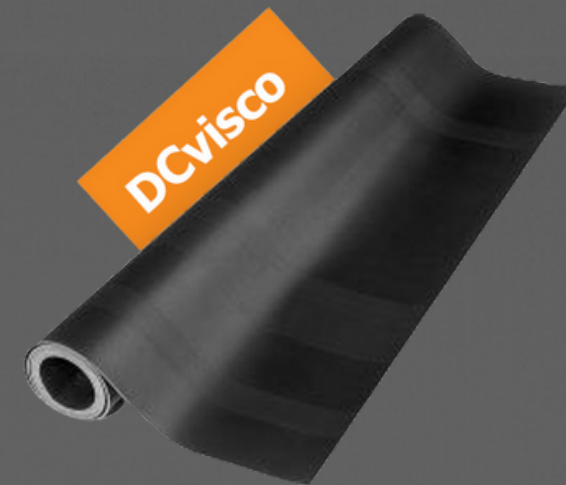
DClant™ is an acrylic polymer sound and vibroinsulating sealant for filling the joints up to 12 mm wide and surface filling of holes with irregular geometry. It is designed to fill slots in the panel joints from the MUTE sound insulation systems, to fill holes around the DClox system fasteners, and as vibro insulation between two layers of gypsum board or plasterboard and solid wall joints. DClant is compatible with all standard painting and varnishing systems. It has good adhesion to concrete, wood, brick, plasterboard and other foundations.



DCscrew™ is an expanded head screw with a cross-cut groove made of phosphate-hardened steel. The DCscrew with a length of 19mm is used for tongue and groove of the Mute panel. DCscrew with a length of 30mm is used to fixate the finishing layer gypsum board on MUTE SYSTEM.



DCstrip™ is a sound insulation tape, which is applied along the perimeter of the soundproofing system. Due to its lower impedance, it acts as a reflector of the longitudinal bending sound waves. Thanks to this property, an increase in sound insulation of up to 2 dB is achieved. The DCstrip is made of high-quality vibration and soundproof elastomer. The precisely selected ratio between mechanical strength, elasticity and dynamic stiffness predetermines the bandwidth to be extremely efficient.



DCvisco™ is a synthetic, visco-elastic, soundproofing membrane made of vinyl polymers and special additives to increase internal losses and bulk density. Placed between two sound absorbing layers, the membrane acts as a vibration dampening and soundproofing layer that works efficiently for medium and high frequencies, and especially in the region of wave coincidences. Its application in MUTE SYSTEM adds up to 3 dB noise reduction to the soundproofing system.