

MUTE SYSTEM

CONNECTED SOUNDPROOFING SYSTEM FOR WALLS AND CEILINGS.

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%.

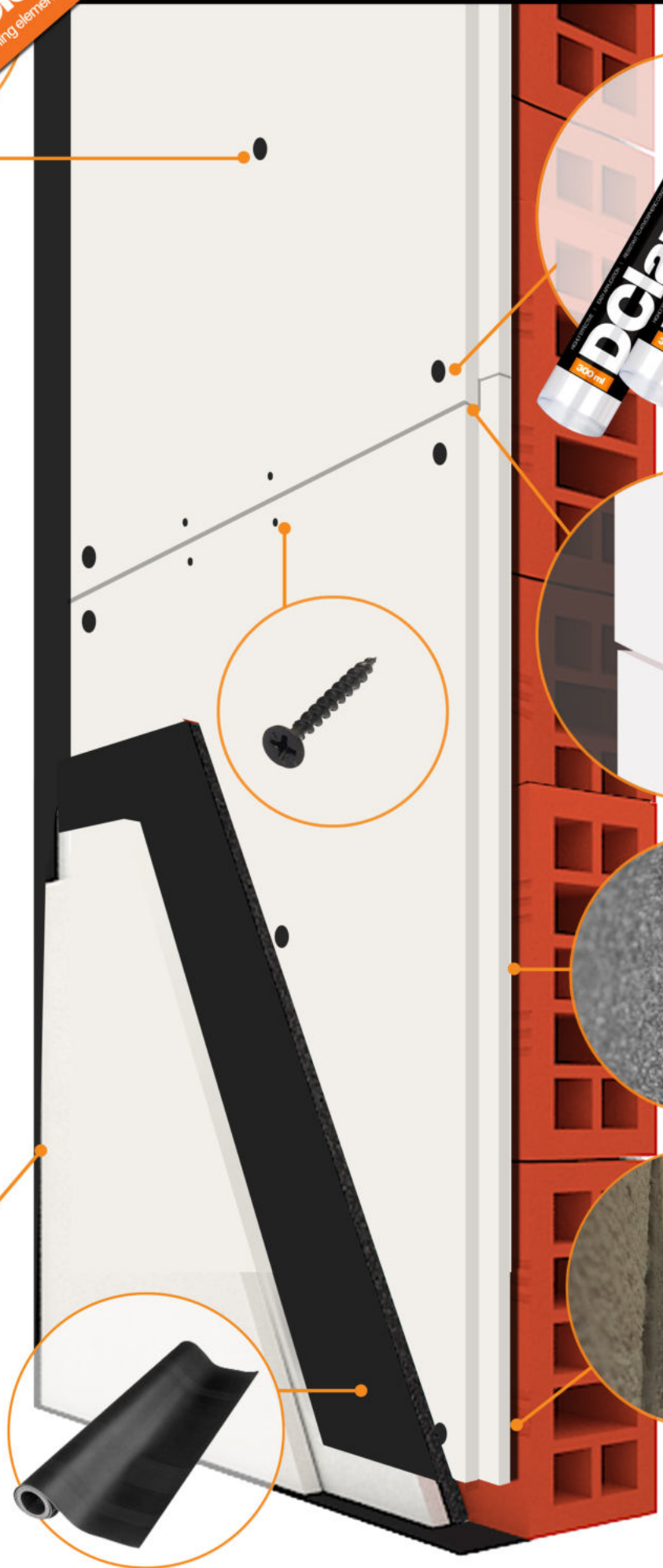
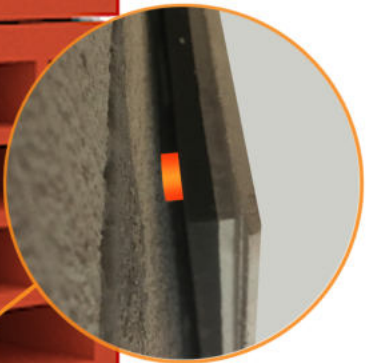
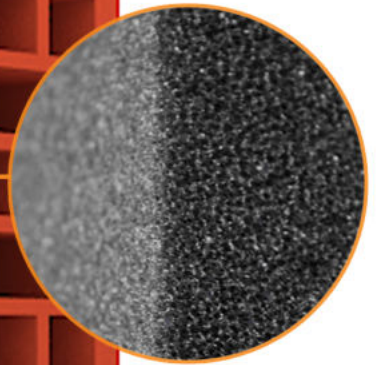
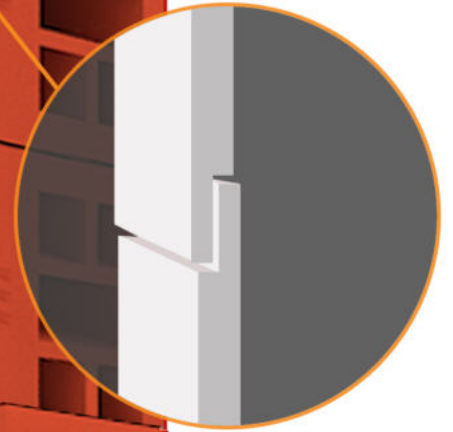
The system is easy to mount via specially designed anti-vibration DCloX element, patented in the EU. DCloX point connection ensures less than 1% contact area between the soundproofing panels and the existing partition thus ensuring minimal sound transmission.

INNOVATION



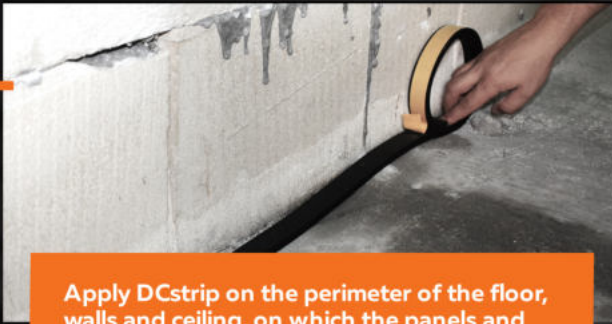
DClox

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%.



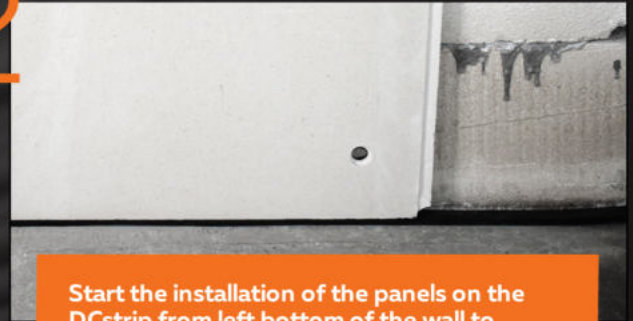
STEP BY STEP

1



Apply DCstrip on the perimeter of the floor, walls and ceiling, on which the panels and the gypsum board will later be installed.

2



Start the installation of the panels on the DCstrip from left bottom of the wall to the right.

3



Drill a hole directly through the DCclox fastening element and insert the dowel and the screw. Fasten the screw and adjust the panel at the desired distance from the existing wall.

4



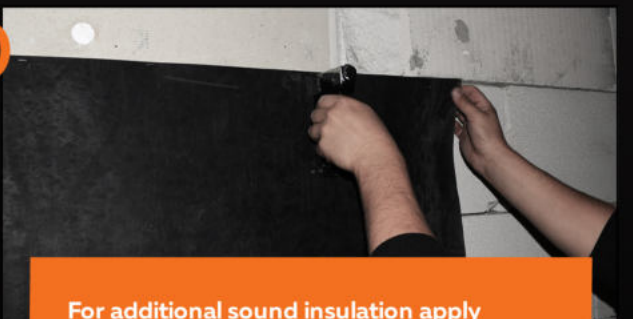
Apply the next panel following the tongue and groove sequence, fix all DCclox elements on the panel and then fix the DCscrew over the tongue and groove of the panel.

5



Fill in the DCclox element and the joints between the panels with DCclant.

6



For additional sound insulation apply DCvisco soundproofing membrane.

7



To finish the system apply gypsum board layer directly over the membrane, fixing it with screws.

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 anti-vibration DClox fastening elements.

RECOMMENDED ACCESSORIES FOR INCREASING THE SOUNDPROOFING PERFORMANCE



MUTE SYSTEM TYPES

TYPE	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 12cm <i>Dwall - 850 kg/m³</i>	51 dB	54 dB	58 dB
Hollow Brick Wall 25cm <i>Dwall - 750 kg/m³</i>	59 dB	62 dB	65 dB
Aerated concrete blocks 15cm <i>Dwall - 390 kg/m³</i>	52 dB	54 dB	56 dB
Aerated concrete blocks 25cm <i>Dwall - 390 kg/m³</i>	57 dB	59 dB	60 dB