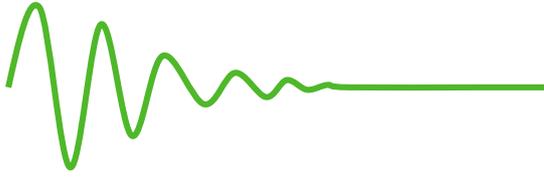


A revolution in soundproofing !



GREEN GLUE 
noiseproof your life



A revolution in soundproofing !

Need to improve the noise-insulating properties of a wall, floor or ceiling? It couldn't be easier or more effective, with Green Glue®.

Green Glue is a viscoelastic compound that attenuates vibration at partitions produced by soundwaves. Green Glue is supplied in the form of a paste, which spreads in between two plaster boards, OSB, concrete masonry, etc, by itself.

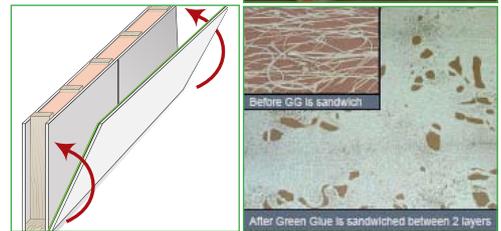
Simplicity itself

Green Glue is extremely simple to use.

- Using the applicator gun, apply Green Glue uniformly over the plaster board (2 cartridges per 1200 x 2400 mm board). Leave a 20 mm border around the edge of the panel to allow for handling.

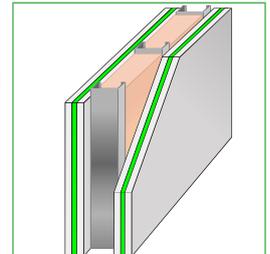


- Apply the board coated with Green Glue to the first layer of boards already fixed onto the structure and screw the coated board to the structure (the product will not run). The pressure between the layers created by screwing them together will ensure that the Green Glue spreads evenly.



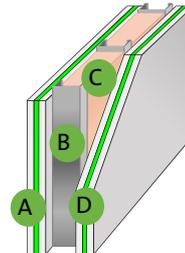
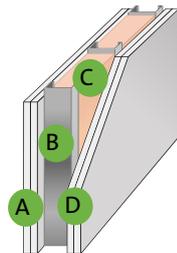
Alternatively : create “sandwiches” comprising two boards of plaster with Green Glue in the middle, and then screw the sandwiches onto the structure.

Total thickness of compressed Green Glue: approximately 0.5 mm



Effectiveness

Tests conducted at independent laboratories have shown that Green Glue greatly improves the sound insulation of dividing partitions.



	Conventional assembly Total thickness = 98mm	With Green Glue Total thickness = 99mm
A	Boards of plaster 2 x 12.5mm	Boards of plaster 2 x 12.5mm with a layer of approx. 0.5 mm of Green Glue between the boards
B	C-shaped metal component, 48mm wide	C-shaped metal component, 48mm wide
C	Slag wool, 50mm	Slag wool, 50mm
D	Boards of plaster 2 x 12.5mm	Boards of plaster 2 x 12.5mm with a layer of approx. 0.5 mm of Green Glue between the boards

6 dB Improvement in the sound insulation index, equivalent to **4 times less noise** transmitted through the Green Glue partition !

And silence reigns supreme !

How does Green Glue® work ?

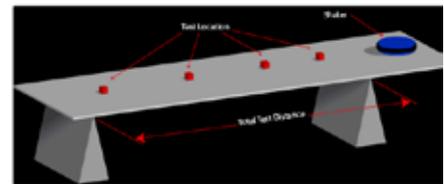
The spread of sound within partitions

When we create a noise inside a room, the air begins to vibrate. The sound energy spreads throughout the room in the form of waves, and bumps up against the walls. The acoustic pressure distorts the wall in a movement resembling the shape of the soundwave. Needless to say, the movement is invisible, but nonetheless it is there, it is active, and is maintained by the source of the sound.

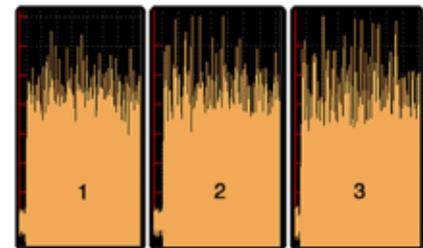
Just as a car's shock-absorbers attenuate the oscillating movement of its suspension, Green Glue attenuates the spread of vibration in the wall. Rapidly-attenuated vibration energy cannot be transmitted to other walls, and insulation is enhanced. Thanks to the attenuating effect of Green Glue, the duration of vibrations is greatly reduced, and the panel does not have sufficient time for a reverberation to develop.

Performance

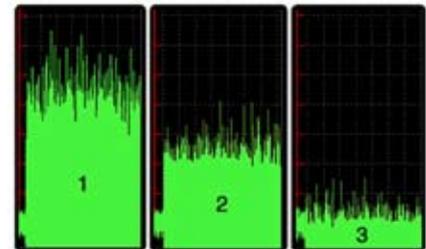
We placed two plaster panels on two trestles here, each panel being 15mm thick. At one end we installed a vibrating crucible, capable of stimulating panels within the 20Hz-20kHz waveband. We arranged several accelerometers at increasing distances from one another.



Without Green Glue, the vibration's amplitude remains essentially constant at locations 30cm, 90cm and 180cm from the source of excitation.



With the layer of Green Glue in between the 2 panels, once it has dried we see a large and increasing decline in the amplitude of vibrations the farther away we are from the source of the sound.





PERFORMANCE PLASTICS

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