



Green Glue is a Visco-elastic damping material from America that offers increased low frequency performance and better cost efficiency than other soundproofing materials. STC ratings of 52, 56 and 59 are achievable with different methods of installation

Ease of application and handling alone make Green Glue a far more attractive proposition than more traditional methods, such as heavy rolls or sheets of MLV that require more than one person to move or install, or materials that require more than a little time to install, such as Resilient Channel, or heavy specialist plasterboards or prefabricated damped panels. Not only is Green Glue easier to handle and use, it also outperforms all the other methods!

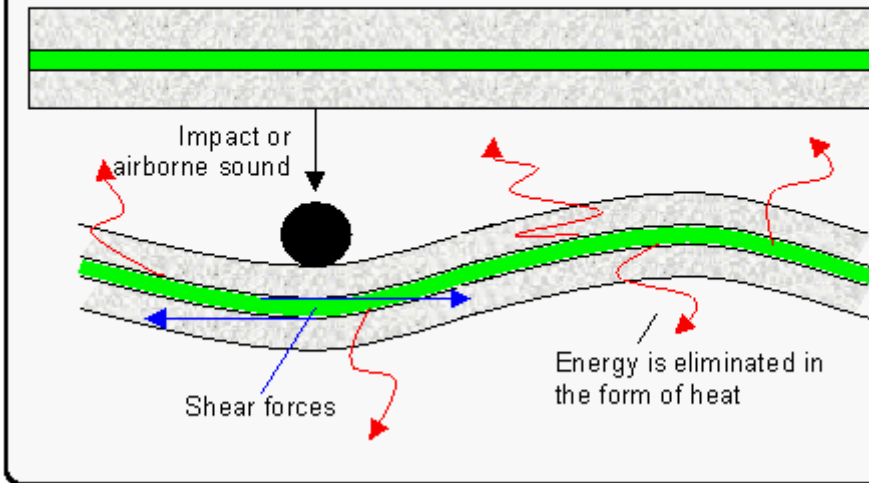
#### **What is Green Glue?**

Green Glue is a soundproofing material that works by significantly reducing sound vibration travelling through a wall, floor or ceiling by a process called constrained layer damping. This process out-performs many other materials and methods, as the graphs below illustrate.

Green Glue comes in tubes, 857ml in size, for ease of use and application.



## CONSTRAINED LAYER DAMPING



### How Does it Work?

Green Glue very effectively reduces a system's ability to propagate sound. Green Glue damps the wall, floor or ceiling structures.

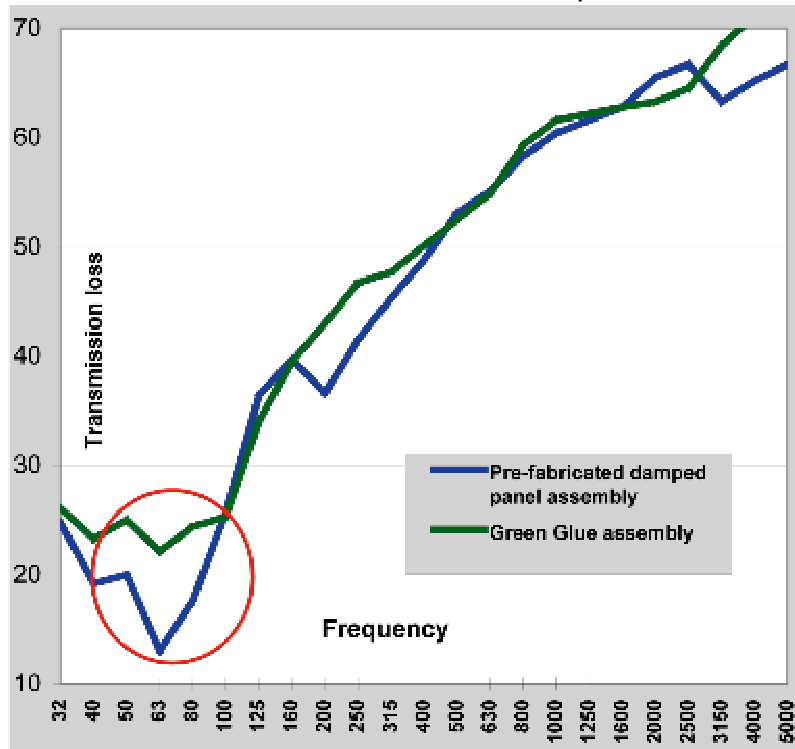
In a constrained layer damping system, sometimes referred to as CLD, a damping material is sandwiched between two other (usually stiff/rigid) materials. In this case, Green Glue is sandwiched between two layers of drywall. Damping occurs when the viscoelastic center of the "sandwich" is sheared (see above).

When bent, shear forces pull and stretch on the damping material. Energy is lost when the damping material is sheared. Imagine stretching and pulling on the surface of the damping material inside that sandwich. The vibration energy is not isolated, it's destroyed. Converted to heat at a rate defined by the efficiency of the damping material in any given system

### Compared with other products...

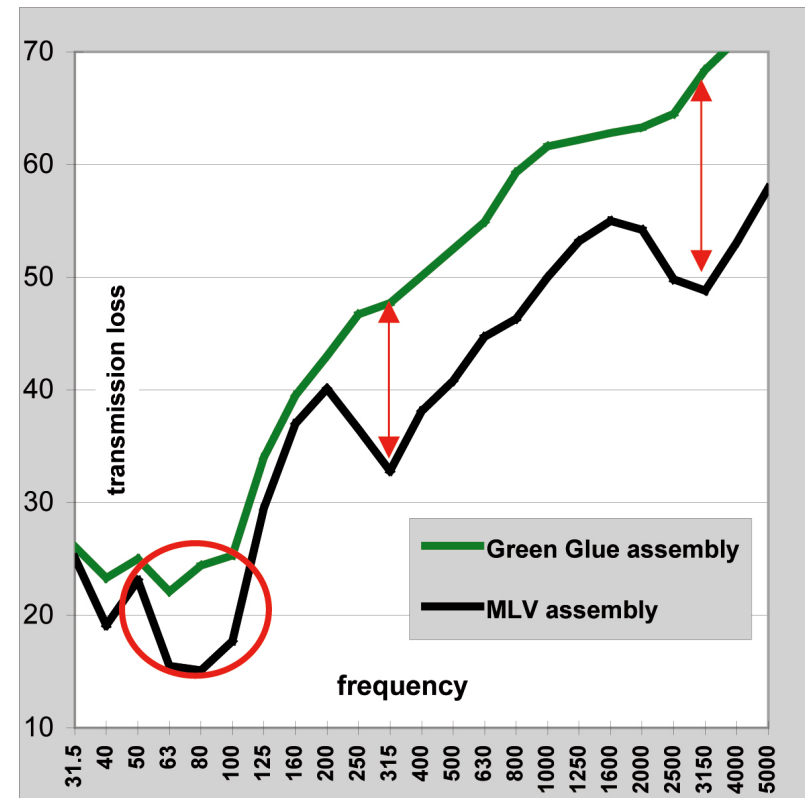
Green Glue has been independently tested for STC 52 and STC 56, these test results are available on request, its clear Green Glue outperforms all 4 materials, especially in the low frequency area..the full tests reports are available for the following..

Green Glue Vs Prefabricated Damped Panel



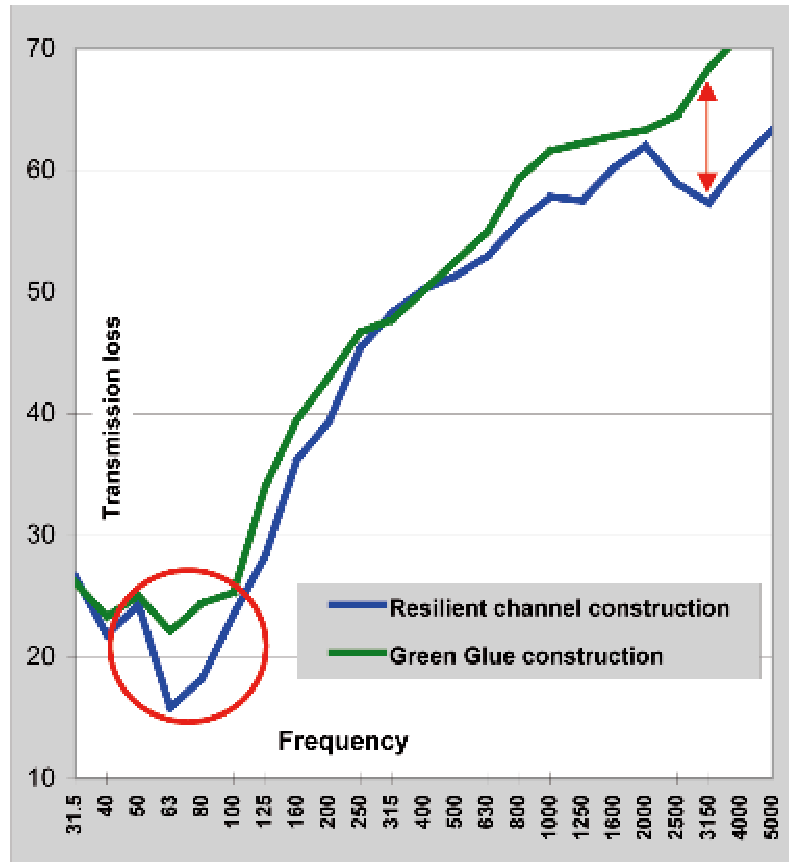
Single side green glue stc 52 vs single sided Prefab. damped  
STC 51

Green Glue vs MLV



Single side green glue stc 52 Vs single side MLV STC 45

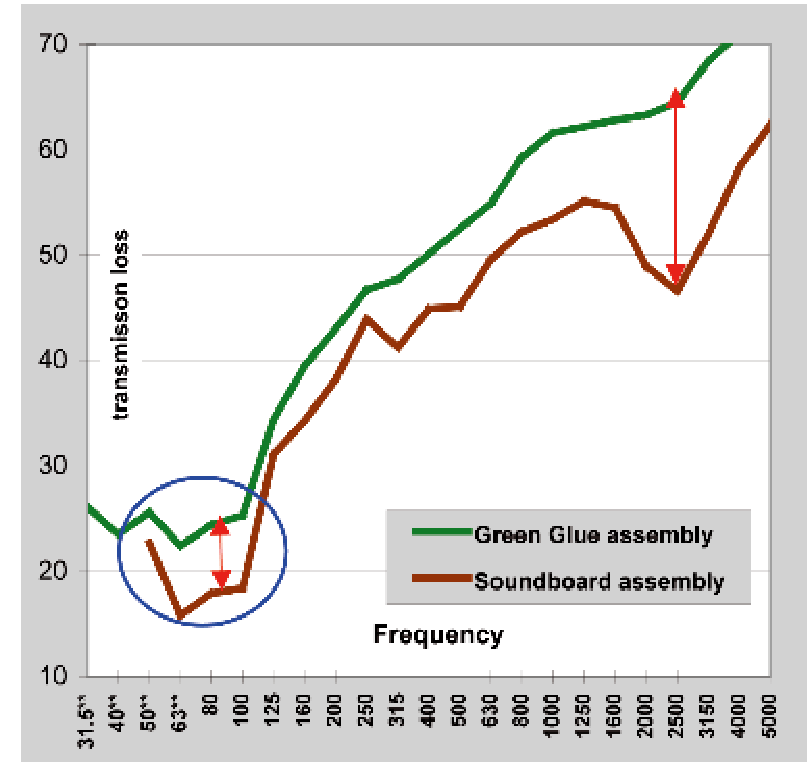
Green Glue Vs Resilient Channel



Green Glue on one side STC 52 vs  
Resilient Channel on one side STC 52

Green Glue cannot be short circuited, 2 layers of Green = Stc 56

Green Glue Vs SoundBoard



Green Glue on one side STC 52 vs Soundboard on one side STC 49

Soundboard was on both sides of the wall, Green Glue on both sides STC 56

## How easy is it to install??

Green Glue is very easy to install, no special tools are required, only an applicator. A full installation PDF can be downloaded [HERE](#)

Green Glue uses up to 3 tubes per 8'x4' sheet of plasterboard, for budget installations, 1 tube can be used and still improve wall performance over standard wall constructions

## What is STC?

STC ratings are an approximate measurement of a system's ability to prevent sound transmission. STC is unfortunately considered by many to be a true measure of real-world sound. The STC system, however, only deals with frequencies from 125Hz to 4000 Hz, so STC ratings don't tell the whole story. It specifically leaves out what about the low frequency?

Generally Low Frequency (bass) is where all wall, floor and ceiling systems fail.

This shows an approximate guide to what STC ratings actually mean in the real world, the left column is the STC value, and the right column is an example of what would be that level

STC Rating	Noise Level
25	Normal Speech, still easily heard
30	Normal Speech, heard but unintelligible
35	Loud Speech heard and understood
40	Loud Speech heard, but unintelligible
45	Loud Speech barely heard
50	Shouting barely heard
55	Shouting Not Heard

as a guide, this table shows different materials and the STC rating they have

<b>STC</b>	<b>CONSTRUCTION</b>
18	Hollow-metal door without seals
22	Solid wood door without seals
26	1/4" plate glass
32	1/2" plate glass
38	1/2" drywall on wood studs, both sides
41	4" painted concrete block wall
42	5/8" drywall on steel studs, both sides
46	8" hollow concrete block
48	12" painted concrete block wall
50	Double 5/8" drywall on steel studs, insulated
53	12" poured solid concrete wall

Dont forget, the STC rating doesnt show the whole story, Green Glue far outperforms traditional and newer methods in the Low frequency area, if Low Frequency noise is your problem, then Green Glue could be the answer.