

Acoustic Glazing

Specialist Glass
that considerably

Reduces
Noise Levels

A COMPLETE GUIDE



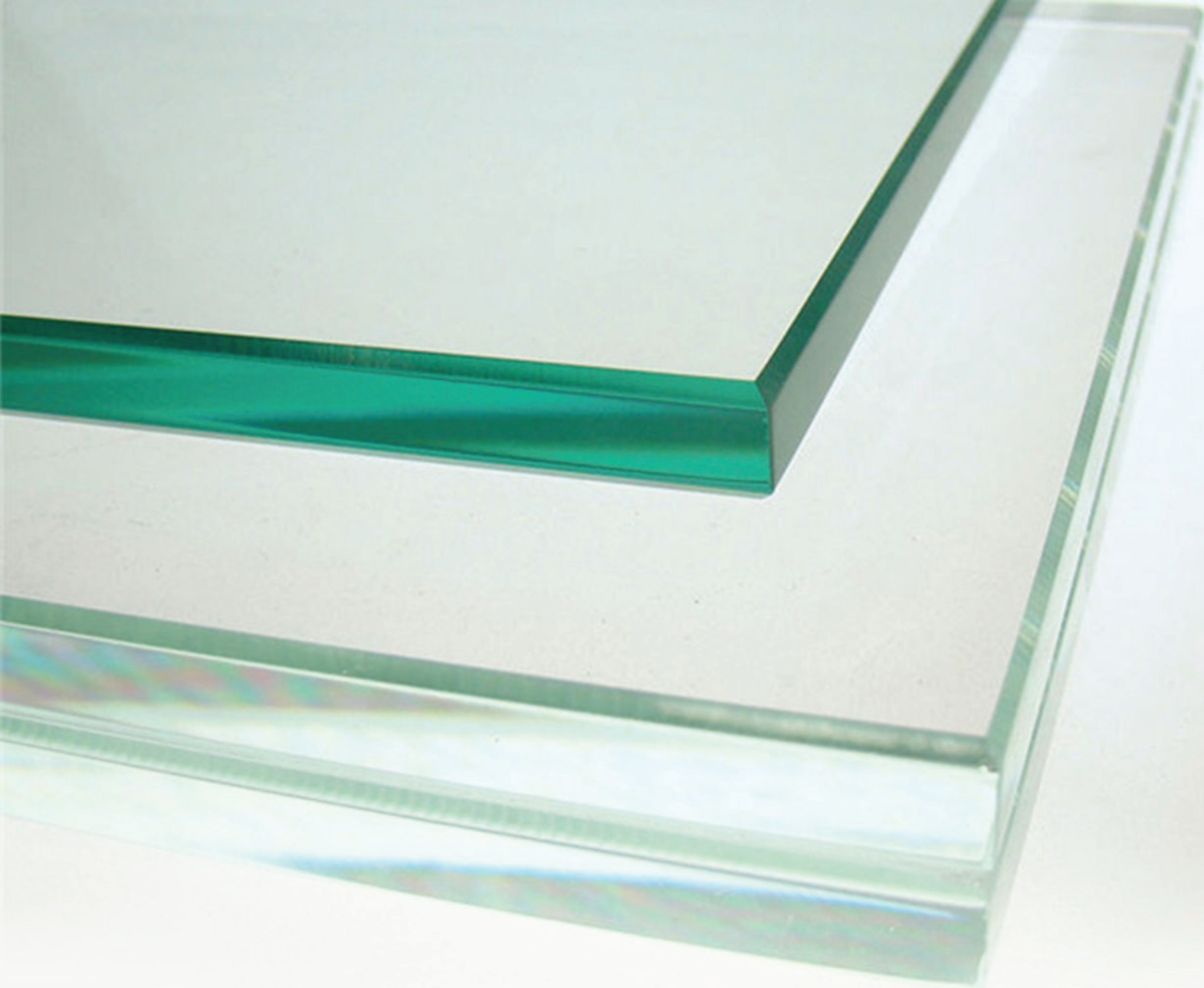
Acoustic Glazing

Windows are generally poor barriers against noise entering your home and finding a solution is often complex.

A standard window with 4mm glass does little to insulate against noise, either open or closed. Even the performance of good insulation within your walls can be substantially reduced by poor window design.

Sound waves are what carry noise into a home. To achieve noise reduction, you must disrupt the sound waves as they travel through the windows. Using standard glass and window options you will be able to disrupt a sound wave.





Thicker Glass

The further the sound wave must travel through the density of the glass, the more likely it is to drop some of the sound waves.

Thicker glass is often the best solution to reduce low frequency sounds like common traffic and neighbourhood noise.

Laminated Glass

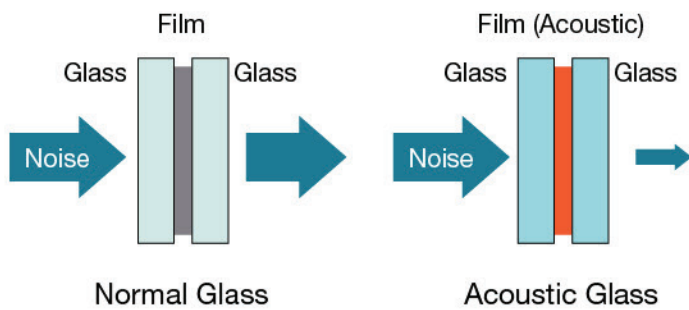
The vinyl interlayer will impact on the sound waves, but as laminated glass usually comprises two panels of equal thickness glass, the sound waves do not have to alter and therefore travel through relatively unscathed.

Laminated glass will perform only slightly better than single glazing of equal thickness.



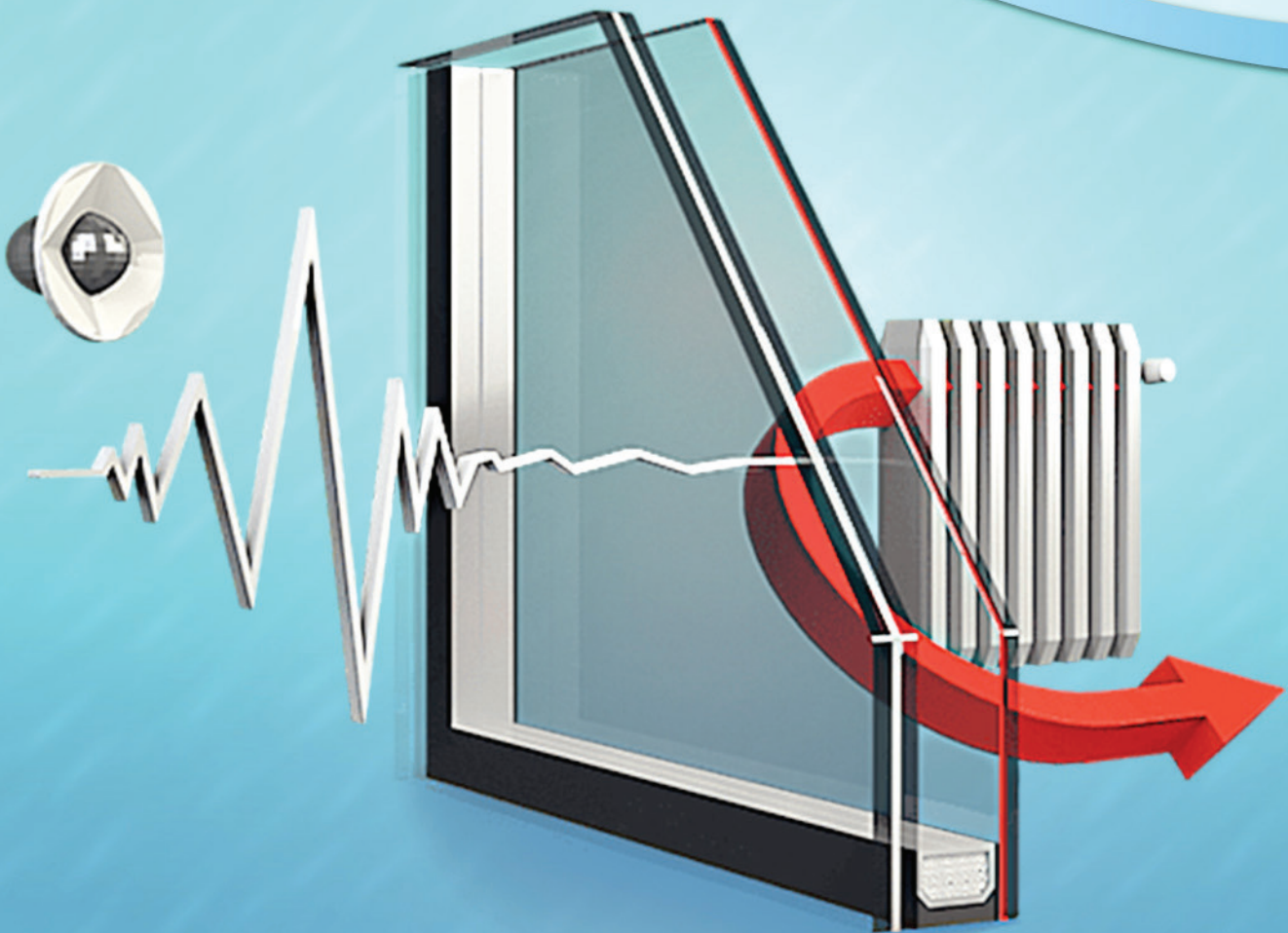
Hush Laminated Glass

Hush laminate glass is a laminated glass that is made with a specially developed interlayer to dampen noise, providing enhanced sound insulation performance.



Insulated Glass Units

The key to achieving significant sound wave disruption in an IGU is to have as large an air gap as possible (less than 12mm air gap will provide an STC no better than thick glass); and to have the two panels of glass vary in thickness by at least 50% (so a 10mm panel on one side and a 5mm on the other).

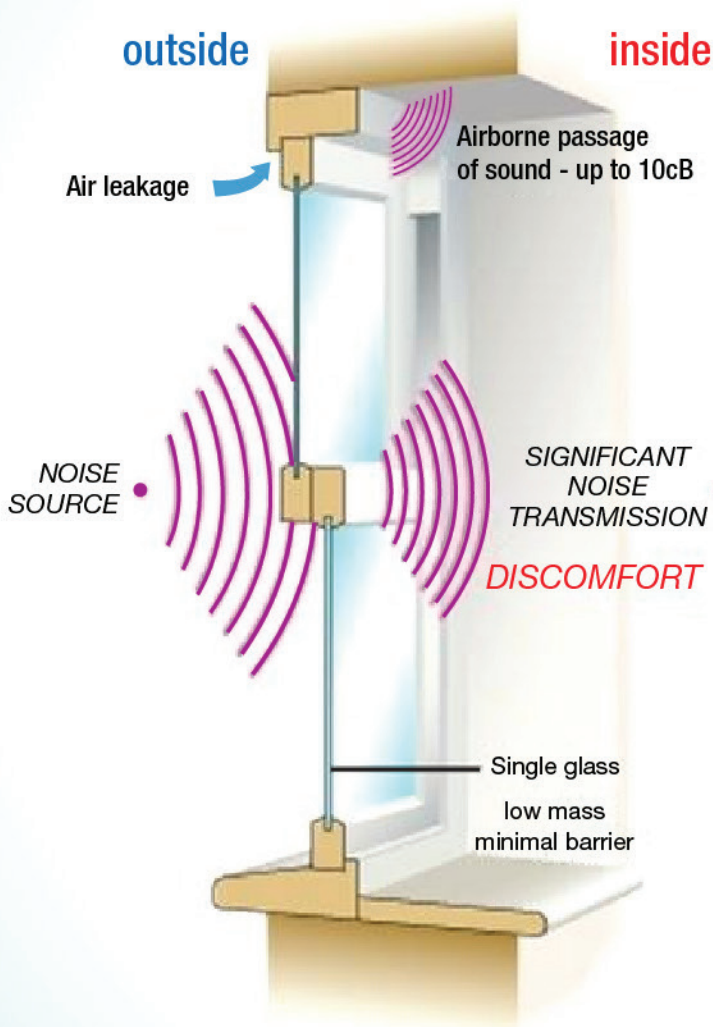


Secondary Window

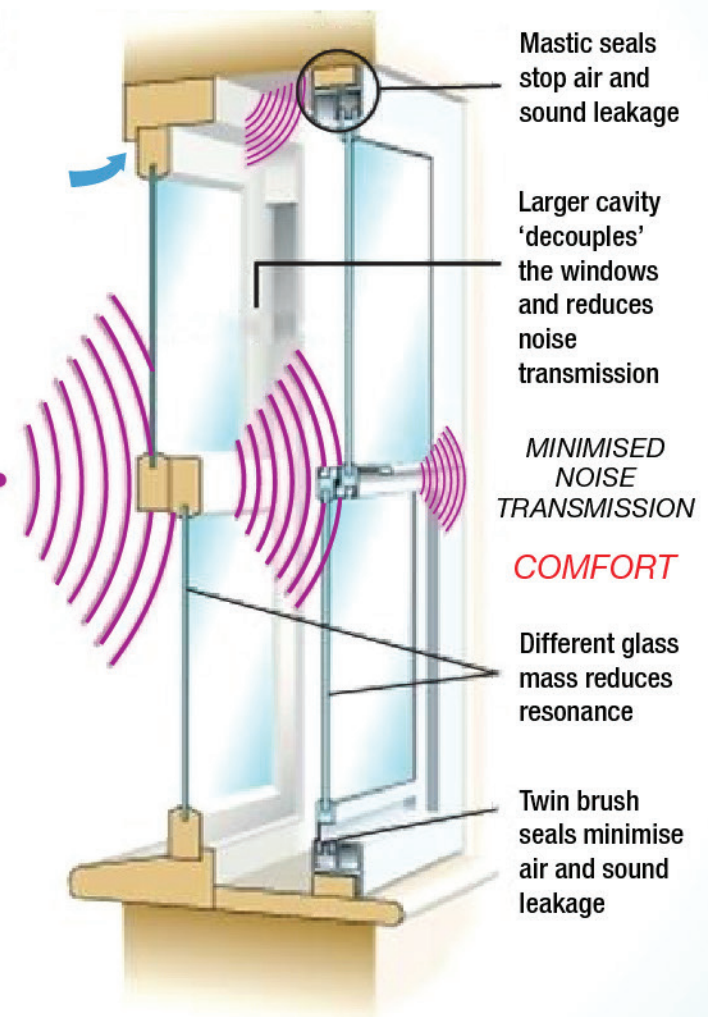
For heavy traffic and aircraft noise a second window with an air space of at least 100mm is the only viable solution to significantly reduce the noise.

The use of different thickness glass is recommended, with one of the windows glazed with 10mm glass is ideal.

Primary window



Primary window with secondary glazing





You
Think
We
Create

Diverse Glazing Group



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