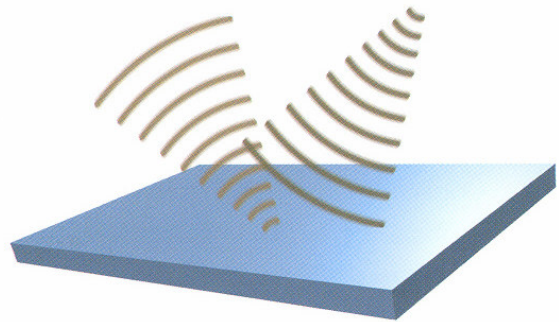


Data Sheet for Noise Reduction (Through the Use of Double Glazing)

Noise can interfere with sleep, rest and conversation and cause fatigue, irritability, headaches and stress. We all need to contain and reduce noise in order to enjoy a healthy life. Thoughtful design and practice can reduce the impact of noise on our lives and improve the quality of our living environment.

Common sources of neighbourhood noise include:

- Road, rail and aircraft traffic.
- Burglar and car alarms.
- Barking dogs and other animal noises.
- Industrial premises and backyard workshops.
- Amplified music from houses, commercial premises and concerts.
- Road and building maintenance and construction.



Noise penetrates the house through cracks and gaps around the windows. And old windows tend to have more of these!

A single sheet of glass is also a poor barrier to noise, whether the window is open or closed! It easily transmits both high frequency sounds such as human voices and low frequency sounds such as traffic noise

Noise can be reduced by blocking it with barriers - for example new uPVC windows with double glazing.

An insulating layer of still air can help to prevent sound waves from being transmitted - so the air (or an alternative gas) trapped between two panes of glass helps to reduce the amount of noise conducted through the window. Our window profile also has chambers within which contain trapped air which works in the same manner.

In most cases the fitting of uPVC double glazed windows effectively doubles the percentage of noise reduction when compared to single glazed wooden windows.