

ACOUSTA™

NOISE REDUCTION GLASS

CREATE A QUIET HAVEN



Noise Reduction

Sound transmitted through glazing is the greatest contributor to noise inside houses and buildings. The potential noise reduction from an insulated wall can be substantially reduced by glazing windows and doors with ordinary glass.

Different sounds produce different frequencies. Human ears are more sensitive to high-frequency sounds between 1000 – 3000 Hz range.

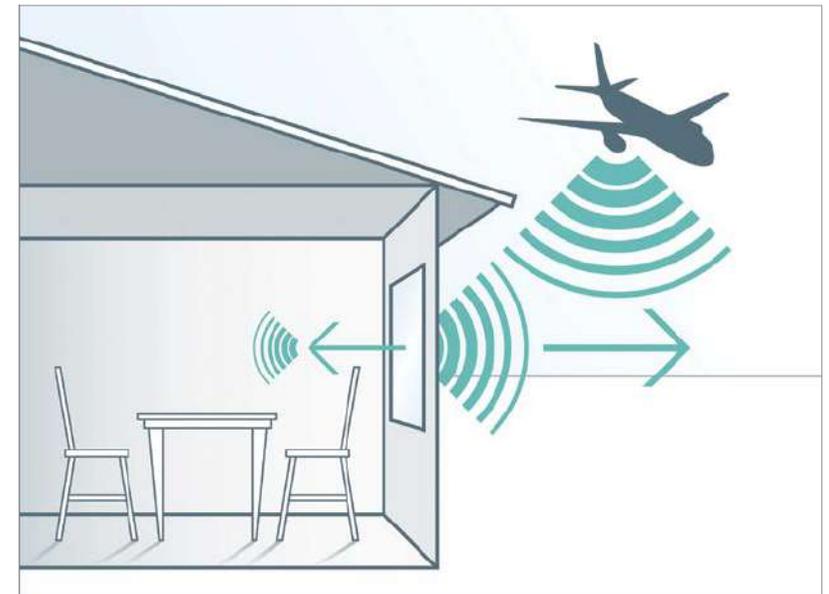
Acoustic Glass

When sound waves encounter a piece of glass, they are reflected back towards the source and absorbed within the glass. Any sound energy that isn't reflected or absorbed is transmitted through the glass.

Acoustic glass is a laminated glass that uses an advanced interlayer enabling it to absorb more sound energy, helping to reduce different types of noise, especially high-frequency types.

Other benefits of acoustic glass

Being a laminated glass, it provides the advantage of being a Grade A safety glass. The acoustic interlayer also filters 99% of UV light which helps to reduce fading of curtains, carpets and furniture.



Acousta™

How Glass Should Sound

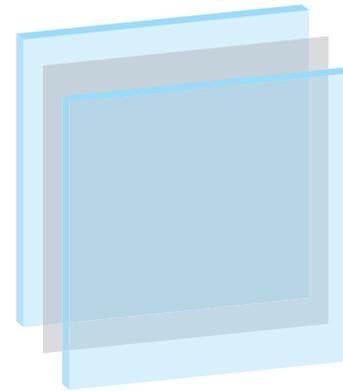
Acousta™ is a laminated glass that uses a specially developed acoustic interlayer which dampens noise more effectively than thicker, far heavier non-acoustic glass products.

This patented interlayer is designed to target sounds in the high-frequency range between 1000 – 3000 Hz which is the “most sensitive for human hearing”. Noises like car horns, barking dogs, amplified music, and aircraft.

Acousta™ is tested and certified to Grade A Safety Glass standard. It is available in a range of thicknesses and can be included in an insulated glass unit.

Advanced Acoustic Technology

Acousta™ is a three-layer system designed to decouple and disseminate sound waves for superior sound damping performance.



Acousta™ Performance Data*

Single Glass	dB Reduction
4mm Standard Glass	Rw30
Acousta™ 6	Rw35
Acousta™ 8	Rw37
Acousta™ 10	Rw38
Acousta™ 12	Rw40
Acousta™ 16	Rw41
Acousta™ 20	Rw42

Duo Plus™ Acousta IGU**	dB Reduction
6mm Clear / 12mm Gap / Acousta™ 6	Rw41
6mm Clear / 12mm Gap / Acousta™ 10	Rw42
6mm / 12mm Gap / Acousta™ 12	Rw43
6mm / 12mm Gap / 13.52mm Acousta™	Rw44
10mm / 20mm Gap / Acousta™ 10	Rw46

*data shown represents glass only values.
**Acousta panels with QS41 0.76mm interlayer

Please Note:

Rw data shown represents glass only values. Ask our staff for other glass combination data not listed above. The higher the Rw rating shown, the more effective the glass in reducing noise. Each 10 dB increase in the sound insulation corresponds to a perceived halving of the loudness of the transmitted sound. The smallest change in sound insulation that is perceptible to the human ear is 3 dB

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