

ACOUSTIC CONTROL GLAZING

The expansion of transport networks and an ever increasing population has exposed many homeowners to intrusive and offensive environmental noise.



For basic acoustic control, there exist a selection of glazings which offer performance gains. With laminated glass, there is the option of specifying a 0.5mm thick (up from 0.38mm) interlayer for improved sound-dampening performance.

With double glazing, a different thickness for each pane within an IGU is an option. Each thickness targets a different frequency within the sound source. Naturally, by specifying double glazing you will also enjoy improved thermal insulation within the building envelope.

It is also critical to remember that glazing is but one of the components of a window or door. Fundamental to acoustic control are effective seals, otherwise sound will travel through any gaps. Rylock products have a minimum of dual seals per opening, and effective locking devices ensure that these seals work as they are designed to.

Intrusive sound can occur from a variety of sources, frequencies and volumes, whilst the orientation of living areas impacts on comfort levels. For this reason, Rylock recommends the advice of an independent, qualified Sound Engineer when seeking an effective solution to seriously problematic noise. Your Rylock Sales Consultant may recommend such experts where deemed appropriate.

The structure of laminated glass is particularly suited to acoustic control. Glass has an inherent threshold where it vibrates at the frequency of the noise source (a 'coincidence dip'). This inhibits any ability to insulate. The interlayer bonded inside a laminated pane is effective at dampening or minimising this dip.

