

02 Security

CSG Laminated Glass resists intrusion because the interlayer continues to safeguard the building even after the glass itself is broken. It cannot be cut from only one side, so ordinary glasscutters are useless.

CSG Laminated Glass tends to resist impact. In multi-ply configurations, it can even resist bullets, heavy objects, or

small explosions. In most cases, it takes many blows at the same spot, to penetrate the glass.

At times even if it is accidentally broken, the interlayer continues to safeguard the building until the glass is replaced. Re-glazing can be done when convenient.

03 Sound Reduction

CSG Laminated Glass has proven to be an excellent barrier to noise, having a higher sound reduction index than monolithic glass of equal thickness between the frequencies of 125Hz and 4,000Hz. This sound dampening is due to the “viscoelastic” properties of the interlayer material. The coincidence effect experienced with monolithic glass at certain frequencies is also considerably reduced with Laminated glass, and the noise reduction performance of IG units can be greatly improved by incorporating at least one layer of Laminated glass. This makes it ideal for airports, hotels, data processing centres, recording studios, and any building near airports, highways, or train lines.

less is barely perceptible; an increase or decrease of 5 dB is clearly perceptible; and an increase or decrease of 10 dB is perceived as a doubling or halving of noise level. The following chart indicates typical laboratory-measured sound transmission losses for various glass configurations.

Tailored for noise control applications, CSG Acoustic Laminated Glass is available upon request.

The acoustic performance of glazing assemblies is expressed in two terms:

Sound Transmission Class (STC) is used to measure the sound transmission loss of interior walls, ceilings and floors; and Outdoor-Indoor Transmission Class (OITC), which measures the sound transmission loss of exterior glazing applications. High sound transmission loss – good sound insulation – is desired in many commercial curtain wall applications. Limiting sound transmission through glazing requires review and testing of the entire glazing system. Laminated glass and insulating glass tend to produce higher OITC ratings because the laminate dampens vibration and the air space limits sound transmission. An important feature of the human perception of continuous sound is that an increase or decrease in sound pressure level by 3 dB or

