

# NOISE CONTROL GLASS

 **ŞİŞECAM**  
ACOUSTIC  
LAMINATED GLASS



ENJOY THE  
SILENCE



# ŞİŞECAM ACOUSTIC LAMINATED GLASS

- **Şişecam Acoustic Laminated Glass** is trademark of sound insulation glass of Şişecam Flat Glass. Acoustic laminated glass contains a special acoustic interlayer which acts as a dampening core between the glass panes, preventing sound frequencies vibrating from one pane of glass to the other, developed for excellent sound insulation for places where there is excessive high level noise. Şişecam Acoustic Laminated Glass not only provides improved acoustic performance, it also provides the safety properties of Şişecam Laminated Glass. For efficient sound insulation, similar measures should be taken also in the other structural elements and materials such as walls, roof and joineries.
- Şişecam Acoustic Laminated Glass can be combined with many other high performance products from Şişecam Flat Glass range providing greater flexibility and helping you realize your glazing requirements.

## Applications

Ideal choice of glass in situations where there is excess noise from road, rail or air traffic, or various other sources for example factories or nightclubs.

- Interpreting booths
- Office separations
- Meeting rooms
- Concert areas



## Characterization of Sound and Sound Insulation

| dB  | EXAMPLES                                       | EVALUATION         | GLASS CONFIGURATION    | SOUND INSULATION VALUES |    |     |
|-----|--|--------------------|------------------------|-------------------------|----|-----|
|     |  |                    |                        | Rw                      | C  | Ctr |
| 140 | Jet aircraft, short distance away              | <b>DETRIMENTAL</b> | 8+0,76A+8              | 44                      | 0  | -2  |
| 130 | Rock music concert                             |                    |                        |                         |    |     |
| 105 | Pneumatic drill                                |                    |                        |                         |    |     |
| 90  | Urban road traffic                             | <b>VERY HIGH</b>   | (4+0,76A+4)+16+6       | 41                      | -2 | -6  |
| 82  | Loud factory hall                              |                    |                        |                         |    |     |
| 80  | Loud radio music                               | <b>HIGH</b>        | (4+0,76A+4)+16+8       | 42                      | -3 | -7  |
|     | Noises in schools, without acoustic insulation |                    |                        |                         |    |     |
| 62  | Railway traffic at high speed                  | <b>MEDIUM</b>      | (4+0,76A+4)+20+10      | 45                      | -1 | -5  |
| 50  | Office noise                                   |                    |                        |                         |    |     |
| 40  | Low level music in the house                   | Low                | (5+0,76A+5)+16+6       | 42                      | -1 | -5  |
| 20  | Whispering                                     | Very low           | (4+0,76A+4)+12+6+12+10 | 45                      | -1 | -4  |
| 0   | Threshold of hearing                           |                    |                        |                         |    |     |

There is nearly 3dB difference between Şişecam Laminated Glass and Şişecam Acoustic Laminated Glass, and 5dB between Şişecam Clear Float Glass and Şişecam Acoustic Laminated Glass. In sound insulation, 10dB means a decrease of 50% in noise.

## HOW TO REDUCE NOISE

Greater the thickness provides better noise reduction for low frequencies.

The incorporation of glass of different thickness into the double glazing will provide a benefit.

Laminated glass should be used singly or in combinations of double glasses.

Acoustic laminated glass should be used singly or in combinations of double glasses.

