

### Enhanced acoustic insulation

### STRATOPHONE :

Stratophone glass is a laminated glass designed to provide enhanced acoustic insulation, effectively reducing noise pollution while ensuring a level of safety equivalent to that of Stratobel laminated glass. By improving sound insulation, this type of glass significantly contributes to the comfort of occupants, with a positive impact on their well-being and health, as well as their productivity in work and meeting spaces.

What makes it so special?

What are the benefits for you?

A safety laminated glass in which the PVB interlayer is composed of three layers, one of which is extra-soft to absorb and attenuate sound more effectively

Stratophone glass is thin, transparent, invisible, and features safety properties. It mechanically absorbs sound waves and reduces sound transmission through the glass.

Protection against high and low frequencies

The thicker the glass, the better the acoustic insulation, particularly at low frequencies (mass effect). Acoustic PVB improves acoustic insulation, especially at high frequencies (damping effect).

Effectiveness of a product that combines various benefits

- Stratophone combines acoustic insulation with other benefits such as safety and energy efficiency, while maintaining aesthetic appeal.
- Noise reduction can reach up to 50 to 75% compared to standard glazing.

Different levels of sound insulation depending on the choice

Depending on sound insulation requirements (high or low frequency), the most suitable glass composition can be selected on the basis of Rw, C and Ctr values defined in standard EN 12758 and all expressed in decibels (dB).

**Products tested and certified in laboratories** — All our products are tested and certified in laboratories. Certificates are available through your AGC sales representative.

Also available in Low-Carbon glass — Available in Low-Carbon glass, EPD certified, and accessible on the Glass Configurator.



# The most common applications

#### — STRATOPHONE ——

#### **Building facades**

Stratophone glass used in facades provides a level of acoustic insulation similar to that of a concrete wall, but with the advantage of being thinner, lighter, and allowing natural light to enter.

Material Type	Description	Thickness (mm)	Acoustic insulation Rw (C; Ct) dB
Concrete block	-	200	53 (-1 ;-4) dB
Stratophone triple glazing	1010.2 AC - 14 - 8 - 14 - 88.2 AC	73	53 (-1 ;-4) dB

AC: Acoustic PVB

#### Residential

Whether for relaxation, work, or overall well-being, Stratophone glass can improve acoustic insulation by 50 to 75%<sup>(1)</sup> compared with standard double glazing. It is also a safety glass.

<sup>(1)</sup> The quality of the frames must also be taken into account.

Glass Type	Composition	Thickness (mm)	Acoustic insulation Rw (C; Ct) dB	Noise reduction (%)
Standard	4 - 15 - 4	23	30 (-1 ;-4) dB	
With Stratophone	4 - 15 - 44.2 AC	28	39 (-2 ;-5) dB	50%
With Stratophone	66.2 AC - 16 - 44.2 AC	37	49 (-3 ;-8) dB	75%

AC: Acoustic PVB

#### Interior partitions

Stratophone glass provides better acoustic insulation than traditional dual glazing using tempered glass.

It is thinner, lighter, and more cost-effective.

Glass Type	Composition	Thickness (mm)	Acoustic insulation Rw (C; Ctr) dB
Tempered glass	6T - air 60 - 6T	72	39 (-3 ;-4) dB
With Stratophone	66.2 AC	12	40 (-1 ;-3) dB

AC: Acoustic PVB



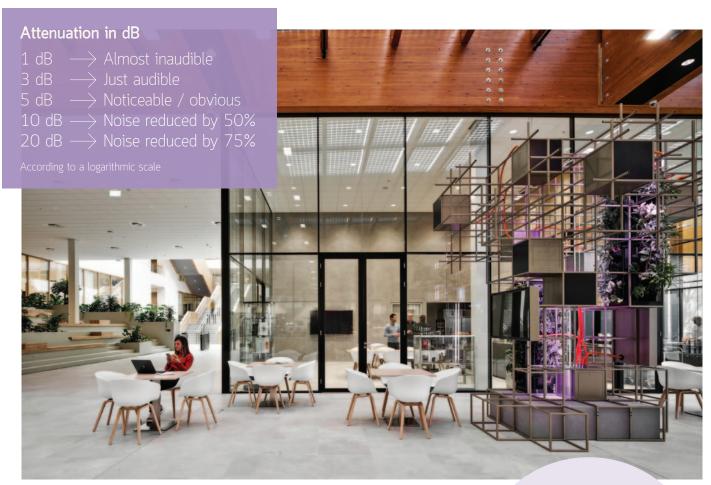
Partition with 2 toughened glasses



Partition with Stratophone glass

# Noise perception and glossary

#### STRATOPHONE -



 $R_{w}$  Refers to the average acoustic attenuation of glass. The higher the  $R_{w}$  value, the better the overall sound insulation. This value is measured in a laboratory and represents a weighted average across the entire acoustic insulation spectrum.

 $R_w$  (C;C<sub>tr</sub>) The values C and C<sub>tr</sub> are corrections applied to the average  $R_w$  value to specifically account for low and high frequencies (common example: 4/16/4:  $R_w$  (C;C<sub>tr</sub>) = 31(-1;-4) dB).

DISCOVER our products and acoustic values table here





Stratophone is Cradle to Cradle Certified®Bronze



