STRATOPHONE

AGC's acoustic laminated glass

Your Dreams, Our Challenge

Enhanced acoustic insulation

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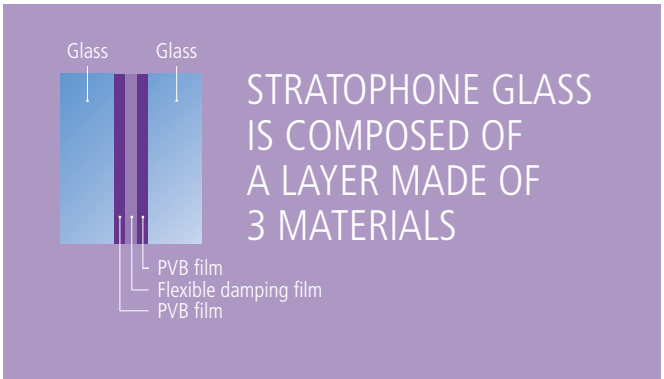
Stratophone glass is a laminated glass designed to provide enhanced acoustic insulation, effectively reducing noise pollution while ensuring a level of safety equivalent to that of Stratobel laminated glass. By improving sound insulation, this type of glass significantly contributes to the comfort of 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

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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 ; Ctr) dB
Concrete block	-	200	53 (-1 ;-4) dB
Stratophone triple glazing	1010.2 AC - 14 - 8 - 14 - 88.2 AC	60	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%[1] compared with standard double glazing. It is also a safety glass.

[1] The quality of the frames must also be taken into account.

Glass Type	Composition	Thickness (mm)	Acoustic insulation Rw (C ; Ctr) 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%

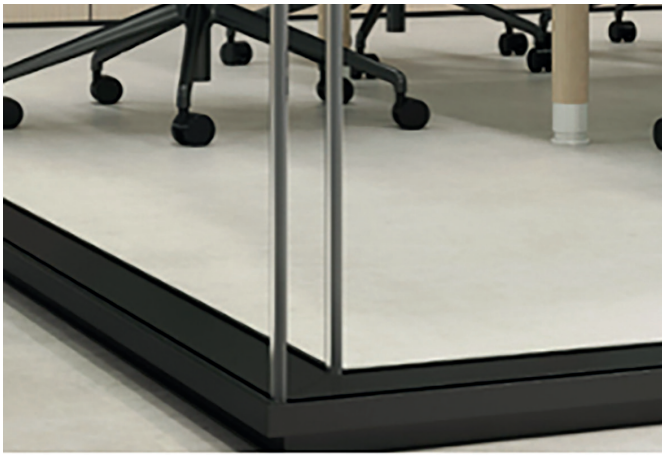
AC: Acoustic PVB

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

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Attenuation in dB

1 dB → Almost inaudible
3 dB → Just audible
5 dB → Noticeable / obvious
10 dB → Noise reduced by 50%
20 dB → Noise reduced by 75%

According to a logarithmic scale

Rw Refers to the average acoustic attenuation of glass. The higher the Rw 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.

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

DISCOVER our products and acoustic values table here

Stratophone is Cradle to Cradle Certified® Bronze

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