

CNCGLASS

Brand: **CNCGLASS**

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TECHNICAL NOTE

Sound Control: Noise-Reducing EVA Laminated Glass

《EVA 夹层玻璃隔声降噪》

By Peter Lin

CNCGLASS · 1. What Acoustic Laminated Glass Does

Acoustic laminated glass is a Glass + interlayer + Glass sandwich that combines safety retention with airborne-sound reduction. Compared with the same total glass thickness as a monolithic pane, the viscoelastic interlayer adds damping that helps cut transmitted noise across a range of frequencies — especially useful near roads, rail, airports, and busy urban façades.

Sound performance is always a system result: glass thickness and asymmetric builds, interlayer type and thickness, insulating air spaces (if any), frame/seals, and installation detailing all matter. Single marketing percentages without a stated makeup are not design data.

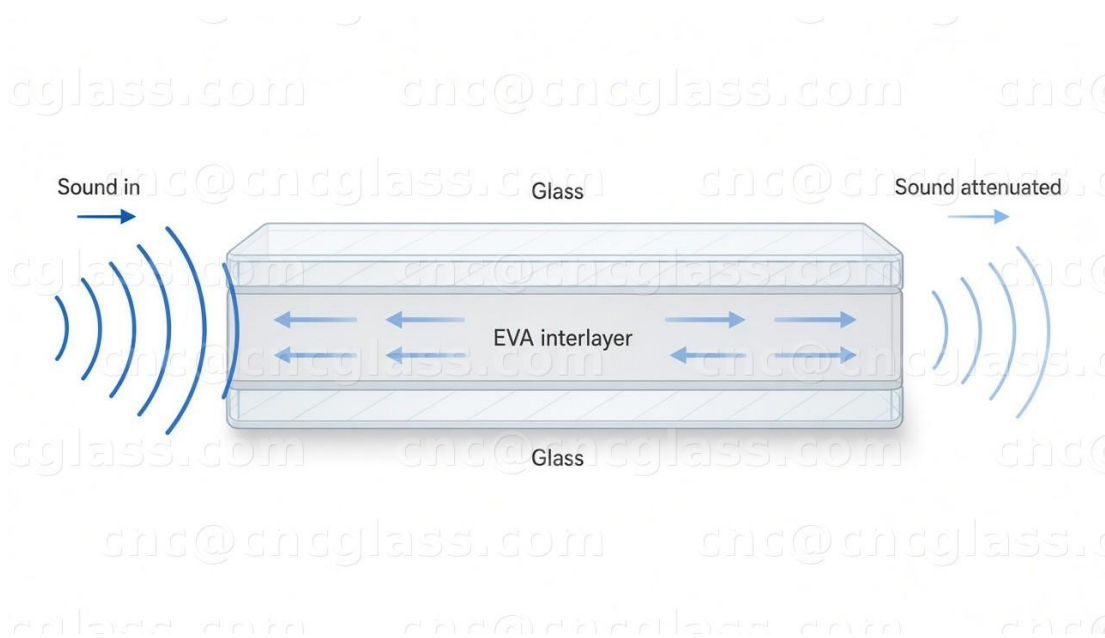


Figure 1 — Sound attenuation schematic: airborne sound hits Glass + EVA + Glass; viscoelastic interlayer damping reduces transmitted energy (principle schematic).

CNCGLASS · 2. Role of CNCGLASS Clear / Outdoor EVA Interlayer

CNCGLASS clear / outdoor EVA interlayer film bonds the glass plies and contributes viscoelastic damping. In vacuum-furnace laminated glass for architectural safety and decorative builds, EVA is often chosen for moisture-tolerant processing, insert compatibility, and open-edge durability — while still supporting useful acoustic attenuation as part of a complete glazing makeup. Interlayer thickness is one lever among several: a thicker EVA layer can increase damping in the same glass sandwich, but certified acoustic claims require the full Glass + EVA + Glass (and IGU cavity if used) to be stated and tested. Do not treat interlayer thickness alone as a universal noise rating.

LAMINATED GLASS ACOUSTIC DAMPING COMPARISON

Effect of Clear EVA Interlayer Thickness on Sound Transmission

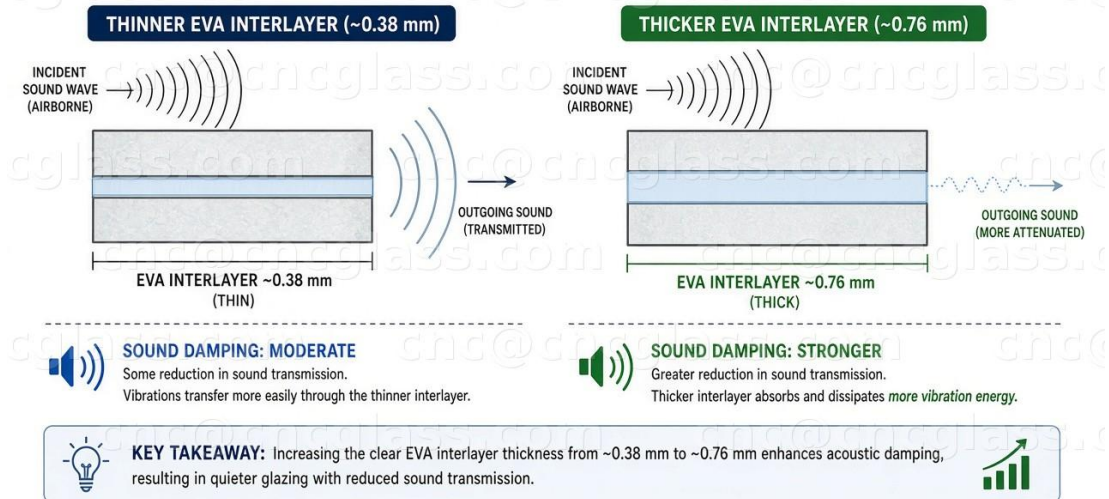


Figure 2 — Qualitative cue: thicker clear EVA interlayer can increase damping vs a thinner interlayer — still depends on full glass makeup and frequency (schematic).

CNCGLASS · 3. Softened Performance Discussion & Indicative Table

Perceived and measured reduction depends on the full glazing makeup, frequency band, source spectrum (speech vs traffic), and installation — it is not a universal guarantee for every project.

R_w, C and C_{tr} below follow common EN ISO 717-1 style reporting: R_w is the weighted airborne sound reduction index; C and C_{tr} are spectrum adaptation terms (C_{tr} is especially relevant for urban road / traffic-like low-frequency content). Values are indicative for a stated interlayer thickness column only.

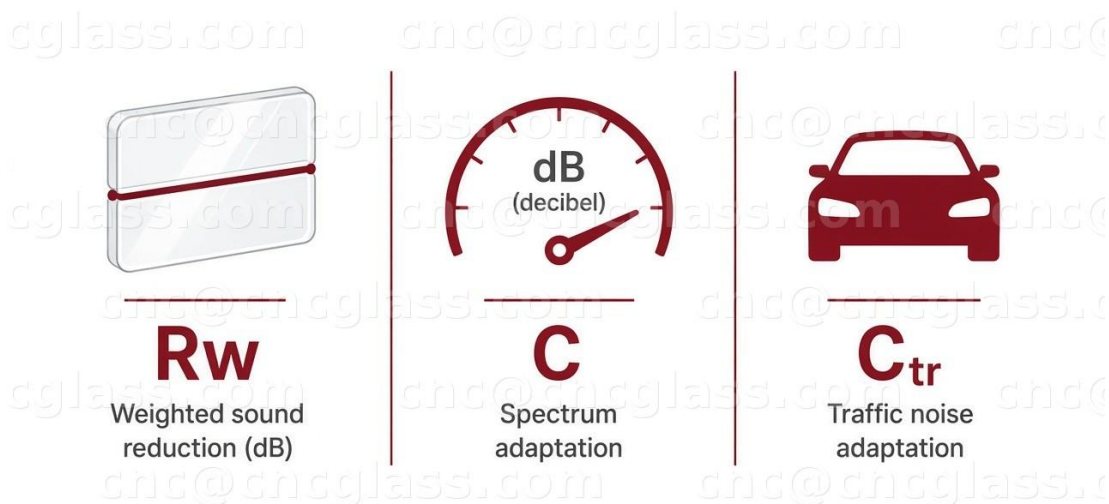


Figure 3 — R_w / C / C_{tr} reporting cue: weighted sound reduction (R_w) with spectrum adaptation terms C and C_{tr} (traffic) per common EN ISO 717-1 style (icon graphic).

Index	0.38 mm EVA interlayer	0.76 mm EVA interlayer
R _w (dB)	35	37
C	0	-1
C _{tr}	-2	-3

CNCGLASS · 4. Typical Applications

Noise-reducing EVA laminated glass is a practical choice where airborne noise and safety glazing meet — as part of a complete window / façade system, not as a standalone guarantee:

- Airport buildings and terminals — façade and partition glazing near aircraft / ground traffic.
- Education facilities — classrooms and libraries facing busy streets.
- Highways and railways — roadside residential and commercial façades.
- Congested traffic corridors and nearby residential areas — living rooms and bedrooms overlooking roads.



Figure 4 — Application: residential / roadside windows near congested highway traffic — laminated acoustic glazing as part of the full façade system.

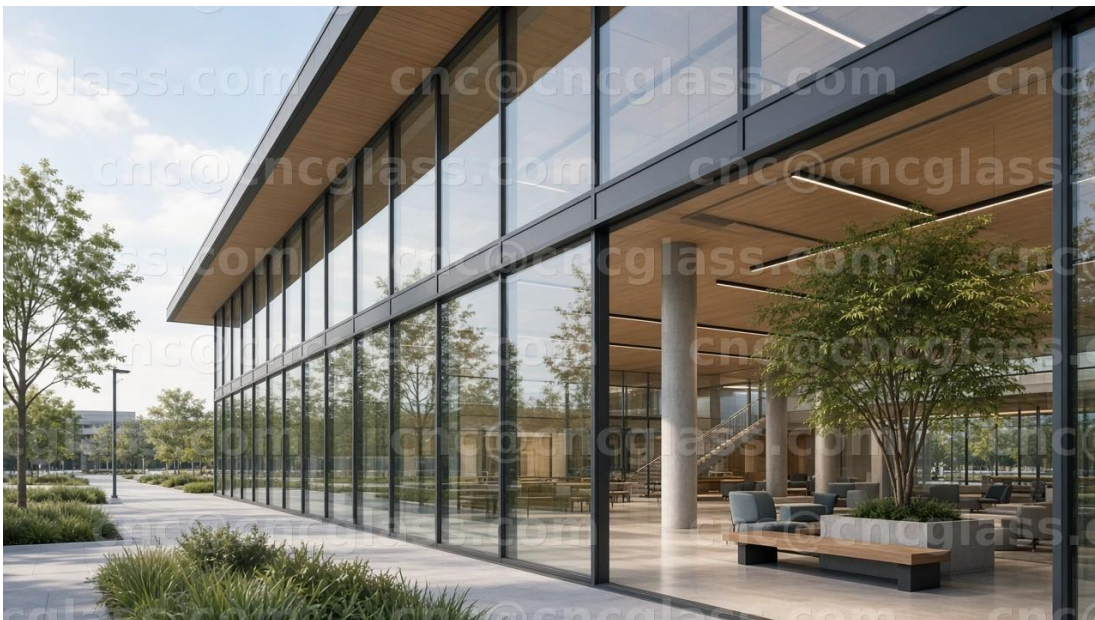


Figure 5 — Application: education facilities and airport-style façade glazing where quieter indoor spaces matter.

CNCGLASS · 5. Practical Takeaway

Use CNCGLASS clear / outdoor EVA laminated glass when you need safety retention plus useful acoustic damping in vacuum-furnace production. Design and tender on stated makeups with R_w (C; Ctr) from laboratory or project tests. For traffic-sensitive façades, compare $R_w + C_{tr}$, not R_w alone. Specify glass thicknesses, interlayer thickness, and any insulating cavity before claiming certified acoustic performance.

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