

CNCGLASS

Brand: CNCGLASS

Company: CNC Ucolin Interlayer Technology Co., Ltd.

Address: SHENZHEN, GD, CHINA

Peter Lin | cnc@cncGlass.com | WhatsApp/Mobile +86 15013829504 | WeChat wecan365 | www.cncglass.com

TECHNICAL NOTE

How to Choose the Thickness of Interlayer Film for Making Different Types of Laminated Glass

By Peter Lin

CNCGLASS · Why Interlayer Thickness Matters

To laminate all types of glass successfully, the thickness of the interlayer film must be chosen carefully. A film that is too thin for tempered glass, thick glass, or large panels can leave voids, edge bubbles, or incomplete fill where the glass is not perfectly flat. The tables below give CNCGLASS starting guidance for EVA interlayer thickness by glass type, glass thickness, and panel length.

CNCGLASS · Selection Principles

Use these principles when reading the tables and when adjusting for a specific job:

- Use a thicker interlayer for tempered laminated glass than for ordinary (annealed) laminated glass.
- Use a thicker interlayer for heat-strengthened laminated glass than for ordinary laminated glass.
- Use a thicker interlayer when laminating thicker glass.
- Use a thicker interlayer for larger panel sizes.
- Use a thicker interlayer when the glass is both thicker and larger.

The tables are for general guidance only. Adjust thickness based on your experience, oven process, glass flatness, and the specific situation. They are a starting point — not a substitute for project or structural design, or for local safety codes and standards.

CNCGLASS · Standard EVA Thicknesses & Stacking

CNCGLASS supplies standard EVA interlayer film in **0.38 mm** and **0.76 mm**. For thicker builds, stack multiple layers:

- 0.38 mm (single sheet)
- 0.76 mm (single sheet)
- 0.38 mm + 0.76 mm = 1.14 mm
- 0.76 mm + 0.76 mm = 1.52 mm
- 0.76 mm + 0.76 mm + 0.76 mm = 2.28 mm

CNCGLASS · Ordinary Laminated Glass

Suggested EVA interlayer thickness (mm). Take the thicker glass in the pair as the standard. L = longer side of the panel.

Glass thickness	L ≤ 800 mm	L > 800 mm
≤ 6 mm	0.38	0.38

8 mm	0.38	0.76
10 mm	0.76	0.76
12 mm	1.14	1.14
15 / 19 mm	1.52	1.52

CNCGLASS · Flat Tempered or Heat-Strengthened Laminated Glass

Suggested EVA interlayer thickness (mm). Take the thicker glass in the pair as the standard. Tempered and heat-strengthened glass usually need a thicker film than annealed glass of the same size.

Glass thickness	L ≤ 800 mm	800 mm < L ≤ 1500 mm	L > 1500 mm
≤ 6 mm	0.76	1.14	1.52
8 – 12 mm	1.14	1.52	1.52
≥ 15 mm	1.52	2.28	2.28

CNCGLASS · Practical Notes

Tempered flatness: Tempered glass typically has more roller-wave and poorer flatness than annealed float glass. For that reason, tempered laminated glass should generally use at least **0.76 mm** EVA — consistent with Table 1, which starts at 0.76 mm even for ≤ 6 mm tempered or heat-strengthened glass.

Adjust by job: Increase thickness for poorer flatness, larger size, heavier load, or when experience on your oven shows voids with the table minimum. Decrease only when flatness and process history clearly allow it.

Codes and design: These tables do not replace structural design, impact or balustrade specifications, or local building and safety codes. Confirm final build-ups with the project engineer or the applicable standard.

Please feel free to contact us if you want to discuss a specific build-up further — you may expect answers within 24 hours.

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