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TECHNICAL NOTE

SGP Ionoplast Interlayer Laminated Glass Multi-Gauge Bake Tests per ASTM C 1914: 0.89 mm, 1.14 mm, and 1.52 mm

By Peter Lin

CNCGLASS · Why multi-gauge bake data matters

Buyers often ask whether CNCGLASS SGP ionoplast interlayer laminated glass stays clean under dry heat when the interlayer gauge changes. Three related bake campaigns used the same ASTM C 1914 method on clear tempered stacks with 0.89 mm, 1.14 mm, and 1.52 mm clear SGP.

This article restates those laboratory bake observations in plain English for glaziers and façade buyers. Third-party client names from the source packets are omitted; branding here is CNCGLASS only.

Tech note (public method context): ASTM C 1914 covers bake and boil procedures used to stress laminated glass for heat durability, edge bubbling, and discoloration checks.

CNCGLASS · Product and specimen

Build-ups (as tested)

Clear tempered glass + clear SGP ionoplast interlayer + clear tempered glass, with interlayer gauges 0.89 mm, 1.14 mm, and 1.52 mm in three separate specimen sets. Finished laminate coupons were square bake coupons without edge glaze or inserts.

Specimen geometry

Each campaign used three square coupons on the order of 300 × 300 mm (finished thickness scales with glass + interlayer). Samples were free of installed fittings.

CNCGLASS · Bake method and judgment

Method

Test item: bake test. Method cited: ASTM C 1914 bake procedure for laminated glass heat exposure.

Judgment focus (plain summary)

- Glass cracking may occur; cracking alone does not automatically fail the set.
- Bubbles beyond the allowed edge band, or discoloration after bake, indicate a fail.
- If any one of the three specimens in a set fails, the whole set is judged as fail.

CNCGLASS · Observed results

All three gauge campaigns (reports 202309A0373 / 202309A0371 / 202309A0370) returned complying bake results: no disqualifying bubbles beyond the edge allowance and no discoloration recorded on the inspected coupons.

Gauge set	Report context	Bake judgment
0.89 mm SGP	202309A0373	Complies
1.14 mm SGP	202309A0371	Complies
1.52 mm SGP	202309A0370	Complies

CNCGLASS · What this means for glaziers and buyers

- Heat-hold confidence extends across common clear SGP gauges, not only a single film thickness.
- Edge quality on site still matters: laboratory coupons are square and glaze-free.

- Specify glass thickness, tempering, and interlayer gauge together—not only the film family name.
- Use bake data together with project codes; bake alone is not a full façade certificate.

CNCGLASS · Contact

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