



Welcome to Elite.

Guardian Select® Elite Fabricator
Guardian Elite Optical Quality Specification

The next level is here.

The most discerning clients and most high-profile projects demand advanced processing capabilities, stringent, verifiable aesthetic standards and rigorous quality control. Introducing **Guardian Elite Optical Quality Specification & Guardian Select® Elite Fabricator** program.

Exacting Tolerances - Elite Optical Quality Specification

When you specify Elite Optical Quality, you can be confident the most stringent specification targets and processing controls are in place to achieve the highest level of optical qualities of glass on your project.

Expect Excellence - Guardian Select Elite Fabricator

When you work with a Guardian Select Elite Fabricator, you can be confident you are entrusting your project to an expert architectural glass fabricator. Elite fabricators are certified to meet the highest-level optical quality standards.

What is Optical Distortion?

Optical distortion can be controlled by carefully specifying tolerances for roll wave and bow and warp. By specifying Elite Optical Quality Standards, and sourcing product from a Guardian Select Elite Fabricator, you are choosing standards that help reduce the occurrence of optical distortion and a partner who can execute on them.



Elite capabilities.

Guardian Select® Elite Fabricators invest in state-of-the-art processing equipment and controls and are certified in possessing advanced fabrication capabilities. Elite fabrication benchmarks include extensive experience in processing the full spectrum of SunGuard low-e products and a track record of excellence in commercial fabrication.

Elite capabilities include:

- Heat Treating (6mm, 8mm, 10mm)
- Oversized tempering (6mm, 8mm, 10mm)
- Heat Soaking
- Lamination
- Ceramic Enamel
- Hole Drilling
- Full Coverage Spandrel
- Triple Glazing
- Edge Polishing
- Coated Heavy Glass
- Oversize - Elite Fabricators are experts in the fabrication of oversized Insulating Glass Units. Supported by Guardian's jumbo glass capabilities, Elite Fabricators can fulfill the most ambitious design aspirations.

Elite specification standards.

Guardian recommends the following Elite Optical Quality specification standards for glass 6mm and thicker, processed by a certified Guardian Select Elite Fabricator.

These Elite Optical Quality specification standards can be accessed here in CSI 3-part format: guardianglass.com/specification

Roll Wave – Automated	Spec Requirement ≤ 0.003 " Max (central area) and +/- 100 millidiopter over 95% of glass surface. Equipment Requirement - Osprey by LiteSentry
Leading and Trailing Edge	Spec Requirement ≤ 0.008 " lead and trail edge (Edges-12") of glass surface. ≤ 0.006 " for glass that is to be laminated. Equipment Requirement- Automated online system required Osprey by Lite Sentry. Zebra Board as back-up only
Center kink	Spec Requirement 0.001" Measured perpendicular to direction of travel, +/- 70X millidiopter Equipment Requirement – Automated/On-line - Osprey by Lite Sentry version 7 or higher
Bow and Warp	Maximum localized and overall bow (warp) per lite shall be 0.031 inch (0.79 mm) per lineal foot: one-half of maximum allowed by ASTM C 1048. Measured once per hour or at any product change.
Anisotropy	Anisotropy detecting device required.
Enhanced IGU Testing	Required – butterfly testing, PIB weights, snap/adhesion testing, documented visual checks for PIB press out and continuity and verifying that there are no gaps between the primary and secondary sealants.
Color	Guardian and Elite level fabricators will monitor color to ensure adherence to ASTM C1376.



Elite. And ready.

Guardian Select® Elite Fabricators are ready for your challenge, your vision, and your partnership. To connect with one for your next project, simply ask your Guardian Architectural Design Manager or visit our Elite Fabricators page on our website.

It's the best of SunGuard®. The best of fabrication. Helping create the very best for you.

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