

Custom Glass Panels Datasheet

Document No. : FG-CGP-001 | Rev. 1.0 | 2026 Felix Glass specializes in fully custom precision glass substrates for machine vision, semiconductor processing, UV optical systems, industrial display and laboratory instrumentation. Global OEM & ODM custom fabrication services are supported.

Typical Manufacturing Capability

- Base Material Options: Fused silica, borosilicate glass, soda lime tempered glass, H-K9L optical glass, low-iron ultra-clear glass
- Dimension Range Min size: 10 mm × 10 mm Max size: 2000 mm × 3000 mm
- Thickness Range: 0.5 mm – 30 mm
- Edge Finish: Ground edge / Fire-polished optical edge / CNC chamfer / Beveled safety edge
- Dimensional Tolerance: Defined per customer engineering drawings
- Surface Treatment: Optical polishing, AR coating, AG anti-glare coating, AF anti-fingerprint coating, tempered strengthening (available upon request)
- Secondary Machining: Through holes, counterbores, cutouts, contour shaping, screen printing

Core Specification - Typical Classification

Material Grade Classification

1. UV transparent fused silica custom panel
2. Optical-grade H-K9L precision glass sheet
3. Borosilicate high thermal resistance panel
4. Tempered soda lime display protective glass

Thermal Performance Note

Service temperature depends on substrate material grade, installation method and actual continuous operating conditions.

Optical Performance Note

Fused silica UV transparent grades are specified for systems requiring consistent transmittance across UV to near-infrared wavelength bands.

Grade Technical Differentiation

- Fused Silica Custom Panel: Suitable for high-temperature furnaces, UV curing equipment and semiconductor viewport shielding
- Optical-Grade H-K9L Sheet: Applied to precision machine vision inspection windows and laboratory spectroscopic analysis

- Borosilicate Panel: Matched for thermal shock resistant industrial observation enclosures
- Tempered Display Glass: Used for industrial touchscreen protective covers and outdoor display equipment

Application Classification

Primary Core Applications

- Semiconductor manufacturing high-temperature equipment viewports
- Industrial UV curing and photochemical reaction optical windows

Secondary Industrial Applications

- Automated machine vision inspection protective substrates
- Laboratory spectroscopy and high-temperature reaction vessels
- Industrial touch display tempered protective covers
- High thermal stability furnace observation panels

The information contained in this document is provided for reference only. Final specifications are subject to mutually approved engineering drawings, production capability review, and customer project requirements.