



INTRODUCING ADVANCED HEAT SOAK TESTING (HST) SERVICES



Precision Glass Industries is excited to unveil our latest advancement in glass safety technology: a state-of-the-art heat soak oven now operational at our Conroe plant. This installation marks us as the only provider in our region with the capability to process large-scale glass up to 110 x 240 inches (approximately 2.8 x 6 meters). We are committed to enhancing the structural integrity and safety of architectural glass through our new Heat Soak Testing services.

What is Heat Soak Testing

Heat soak testing is a preventive treatment designed to identify susceptibilities in tempered glass. This testing specifically targets Nickel Sulfide (NiS) inclusions, microscopic imperfections that can cause glass to break spontaneously under normal conditions. By simulating conditions that accelerate the expansion of NiS inclusions, our heat soak oven ensures that any potential failures occur before installation, not after.

Why It Matters

Spontaneous glass breakage poses safety risks and significant costs. It originates from NiS inclusions that change their volume unpredictably during glass tempering. Our HST process heats the glass to a critical temperature that forces these inclusions to expand, revealing the glass that would fail under everyday environmental conditions.

Our Process

The new heat soak oven operates at precise conditions of around 500°F±18°F (260°C±10°C), with a controlled dwell time to maximize detection efficacy. We adhere to the stringent BS EN 14179-1 European standard, ensuring our process offers unmatched quality and safety assurance-currently unmatched by any North American standard.



Benefits of Our HST Services

1. **Enhanced Safety and Reliability:** Our process drastically reduces the likelihood of in-field glass breakage, thereby protecting both property and lives.
2. **Compliance with Global Standards:** Despite the absence of North American standards for heat soak testing, our adherence to rigorous European standards ensures that our glass meets global safety benchmarks.
3. **Peace of Mind:** Clients can be assured that their glass installations are not only aesthetically pleasing but also structurally sound and reliable over time.

Availability and Expertise

We invite architects, contractors, and developers to integrate our HST services into both new and existing projects. Our team is equipped to provide detailed consultations to tailor our services to your specific needs.

Reach Out for Partnership

To learn more about incorporating this vital safety measure into your glass specifications, please contact our sales and technical team at info@precisionglassindustries.com. We are ready to assist you in ensuring the highest safety standards for your projects.