



FAÇADE CREATIONS



Fireglass
Brochure

Façade Creations:

Engineering Safety and Vision with Advanced Fire-Resistant Glass

In modern architecture, safety is paramount, yet it must never compromise design integrity or visual brilliance. At Façade Creations, we seamlessly integrate cutting-edge fire-resistant glass solutions into building envelopes, transforming potential vulnerabilities into areas of aesthetic appeal and unwavering protection. Our expertise ensures that your architectural vision can be realized without compromise, providing critical safety in the face of emergencies while maintaining luminous, transparent spaces.

The Imperative of Fire-Resistant Glass

Fire-resistant glass is a cornerstone of contemporary building safety, meticulously engineered to contain fire, smoke, and heat for defined periods, allowing for safe evacuation and protecting valuable assets. Far more than just a barrier, it's an active component in a building's life safety strategy, providing critical time that can save lives and limit property damage. We offer advanced fire-resistant glazing that actively blocks flames and hot gases, and, in certain configurations, significantly reduces heat transfer, ensuring that unexposed areas remain safe.



Innovators in

Curtain Walling, Façades, Cladding, Windows & Doors



The Imperative of Fire-Resistant Glass

Façade Creations delivers a versatile range of fire-resistant glass, adaptable for both internal and external applications, integrating flawlessly into diverse architectural systems. This includes:

1. **Fire-Resistant Façades:** Create expansive, transparent exteriors that meet stringent fire safety standards, preserving outward views while providing robust protection against fire spread.
2. **Protective Partitions:** Design elegant interior divisions, including frameless butt-jointed systems, that act as secure fire compartments, allowing light to permeate while containing fire and smoke.
3. **Secure Doors and Windows:** Incorporate fire-rated glazing into entrance systems and fenestration, ensuring safe passage and compartmentalization without sacrificing natural light or design continuity.
4. **Resilient Roof and Floor Glazing:** Develop glazed roofs and walkable floors that illuminate interiors while offering defined periods of fire resistance and structural integrity, maximizing daylight penetration while ensuring safety from above or below.
5. **Effective Smoke Barriers:** Deploy transparent static smoke barriers that actively control the movement of smoke and hot gases, maintaining clear escape routes and improving tenability during an emergency.



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Our Categories of Fire Resistance

Our advanced fire-resistant glass is classified according to rigorous European Standards (EN 13501-2 and EN 13501-4), ensuring predictable performance under extreme conditions:

- **Integrity with Full Thermal Insulation (EI):** This class of glass acts as a complete barrier against flames and hot gases, and crucially, effectively blocks heat transfer from the exposed side to the unexposed side. The temperature rise on the unexposed side is strictly limited, providing maximum safety and protection for occupants and contents.
- **Integrity with Reduced Heat Radiation (EW):** Offering integrity against flames and hot gases, this glass significantly reduces the transfer of radiant heat to the unexposed side. It provides a safer environment by controlling the heat flux, preventing ignition of combustible materials and minimizing discomfort for those in proximity.
- **Integrity Only (E):** This glass acts as a dependable barrier against flames and hot gases for a specified duration, maintaining its structural integrity to prevent fire spread through direct flame passage.
- **Static Smoke Barriers (DH/D):** Engineered specifically to control and contain the movement of smoke and hot gases, these transparent barriers are vital for maintaining clear evacuation paths and supporting effective smoke management systems during a fire event.



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Our Categories of Fire Resistance

Our commitment to innovation ensures that Façade Creations' fire-resistant glass solutions are at the forefront of performance and design:

- **Expansive Dimensions & Curved Possibilities:** We offer the capability for extra-large glass sheets, allowing for grand architectural statements, alongside precision-engineered curved fire-resistant glass, enabling fluid and organic designs.
- **Optimized Visual and Acoustic Performance:** Featuring high light transmittance (up to 87%), our fire-resistant glass ensures bright, naturally lit interiors. Additionally, its layered composition can deliver high sound reduction indices (up to 52 dB for insulated units), creating serene and quiet internal spaces.
- **Robust Durability & Stability:** Manufactured with thermally toughened safety glass, our products boast high mechanical resistance and impact resilience. They maintain performance across a wide temperature range (from -40°C to +50°C) and exhibit high water resistance.
- **Seamless System Integration:** Our fire-resistant glass is designed for effortless integration into various tested and certified framing systems, including aluminum, steel, and timber.
- **Combined Functional Properties:** For enhanced performance, our fire-resistant glass can be combined within multi-pane insulated units (DGU/TGU) with other functional glass products, such as low-emissivity (Low-E) glass for thermal performance, solar control glass for energy efficiency, sound control glass, laminated safety glass, and even anti-burglary or bulletproof glass, ensuring a unified and high-performing façade.



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PARTNER WITH



To elevate your project with fire-resistant glass solutions that embody safety, brilliance, and architectural freedom

Contact Façade Creations today
to illuminate your vision responsibly.



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