

Vandal Guard Triple-Layer Polycarbonate Security Glazing

Product Specification Sheet

Product Overview

The Vandal Guard Triple-Layer Polycarbonate Security Glazing system is a high-strength, impact- and ballistic-resistant glazing solution designed for secure public facilities and high-risk environments. Constructed from three layers of polycarbonate totaling 1" in thickness, this system provides exceptional protection while maintaining visibility and long-term durability.

Material

- Clear polycarbonate sheets
- Total system thickness: 1" (three-layer construction)
- Shatter-resistant, impact-resistant material suitable for high-security applications

Construction

- Three-layer polycarbonate panel assembly
- Layered design engineered to absorb and dissipate impact and ballistic energy
- Maintains structural integrity without spalling or shattering
- Compatible with mechanical retention or laminated framing systems

Finish

- Clear polycarbonate finish
- High optical clarity for visibility and safety

Ballistic & Security Performance

- Multi-layer polycarbonate construction commonly used in bank teller windows and secure facilities
- Designed to meet or exceed applicable ballistic resistance requirements based on configuration
- Absorbs projectile energy through controlled deformation rather than fracture
- Reduces risk of secondary fragmentation and injury

Why Polycarbonate vs. Plexiglass (Acrylic)

- Polycarbonate is significantly stronger and more impact-resistant than acrylic (plexiglass)
- Will not crack or shatter under high-force impact
- Acrylic may fracture or fail under ballistic or repeated impact loads
- Polycarbonate maintains integrity under repeated strikes and extreme conditions

Applications

- Banks and financial institutions
- Secure public facilities and restrooms
- Protective glazing, transaction windows, and enclosures
- High-impact and vandal-resistant installations