



Security Glass Solutions



Glass Doors and Windows are Your Building's Achilles' Heel

FIGHT BACK

RIOT GLASS OFFERS THREE LEVELS OF SECURITY PROTECTION

Protecting commercial buildings, retail stores, schools, and homes is our mission. Whether you are designing a new building or retrofitting an existing property, if the goal is to keep intruders out, we can tailor a solution to meet your specific needs. Surveillance cameras, alarm systems, and patrol services are invaluable, but don't do one important thing: physically keep intruders out. Glass doors and windows are your building's Achilles' heel. Once violated, the potential costs in loss of life, emotional trauma, damaged property, cleanup fees, business downtime, and stolen merchandise can be astronomical. Standard glass is never a match for a rock, hammer, brick, gun, or a bomb. How do you protect what matters most? When strength and a discreet appearance are both essential, security glass is the answer. To varying degrees, all of our security glass offerings protect against forced entry, ballistic attacks, or bomb blasts. Additionally, all are virtually invisible and undetectable, yet perform a vital function in a tumultuous world. Which is right for your property? Most often it comes down to threat assessment versus budget.



SAFETY AND SECURITY WINDOW FILM

Time tested 3M™ Safety and Security Window Film is a pliable polyester Mylar coating that is applied to the inside surface of your glass.



LAMINATED SECURITY GLASS

Riot Glass™ is an extremely robust laminated glass that features a tougher, much stiffer, and more resilient thermoplastic interlayer that outperforms regular laminated glass interlayers. You get all of the characteristics of normal glass and the protection of a formidable security barrier.



POLYCARBONATE PANELS AND FRAMING

ArmorPlast™ isn't glass, but a combination of acrylics, polycarbonate, and other plastics. Clear ArmorPlast™ panels are available in containment-grade, ballistic, and non-ballistic ratings.



**Every Property is More Secure
with 3M Window Film**



SAFETY & SECURITY WINDOW FILM

ESTIMATED TIME TO ENTRY **30 SECONDS TO 3 MINUTES**

Delaying entry by up to three minutes, 3M™ Safety and Security Window Film adds a protective barrier to existing glass doors and windows, providing protection against burglary. In the case of a violent intruder, it can give occupants time to escape and call 911 while allowing the police time to respond. Virtually invisible, 3M™ Safety and Security Window Film is applied to existing glass doors and windows, creating a potentially lifesaving shield that holds the glass together under attack. Additionally, attaching window film to the frame with a gasket-like bonding agent makes the system even stronger. The end result is an effective and affordable way to delay entry, protecting property and personnel. 3M™ Security Window Film is available with privacy options including a two-way mirror effect. Both offer the same protective strength as the clear version, but make it difficult, if not impossible, for intruders to see targets and know which rooms are occupied or vacant. A few seconds of confusion or resistance can make a lifesaving difference. Finally, 3M™ Safety and Security Window Film can do much more than just provide security. Security film blocks 99% of the damaging UV rays that can cause artwork, carpets, and expensive furniture to fade. Available in both clear and tinted colors, it can also reduce heat, glare, and sunlight entering your property. For those times when Mother Nature acts unpredictably, security film holds shattered glass together, minimizing the chance of injury from earthquakes, hurricanes, tornadoes, and wind storms that can send debris flying into the glass with catastrophic results.



**As The Strength Goes Up,
So Does Your Peace Of Mind**



LAMINATED SAFETY GLASS

ESTIMATED TIME TO ENTRY **4 MINUTES TO NON-ENTRY**

Imagine you own a retail store. Your phone rings after hours. It's the police delivering heartbreaking news: Your property has been hit. The cost? Building damage, irreplaceable inventory, lost revenue, and insurance deductibles. Equally important is the emotional trauma inflicted on you, your employees, and customers. Now, imagine that same phone call, only this time the voice on the other end informs you that although your store was vandalized, the rioters or burglars were unable to gain entry. No merchandise was stolen. Your store interior is intact, and your property is safe. What makes the difference? Riot Glass™. Keep in mind this is no ordinary safety glass. Riot Glass™ is up to 100 times stiffer and 5 times stronger than traditional interlayer safety glass. When our Riot Glass™ Series, (RG3, RG6, and RG9) is attacked, an advanced thermoplastic interlayer between the glass panels delays entry, holding the door or window solidly in place, and stopping bad guys cold. Extremely cost effective, Riot Glass™ allows retailers to maintain existing doors and windows while still protecting against multiple threats. No longer do you have to endure the cost of frame replacement, which often leads to stucco, wood, and painting repairs. Retrofitting with Riot Glass™ provides the same protection as a full window replacement, but at a much lower cost. Riot Glass™ is also effective in homes, particularly on patio doors. Available in single and dual pane options, Riot Glass™ is custom made to fit your window openings and ranges from 1/4" thick to a 1" insulated glass unit (IGU). Riot Glass™ is available in clear, tinted, and Low-E versions.



**Containment and
Ballistic Grade Security**



POLYCARBONATE PANELS AND FRAMING

ESTIMATED TIME TO ENTRY **VIRTUALLY IMPENETRABLE**

An otherwise peaceful downtown street can erupt into total mayhem during civil unrest or an organized attack on a targeted property. ArmorPlast™ provides unmatched protection even under assault from multiple attackers, heavy tools, or rounds from a variety of firearms. Our polycarbonate and acrylic panels—available in thicknesses up to four ply—block an armed assailant's preferred path of entry through vulnerable glass doors and windows. Ideal for schools, government facilities, banks, and high threat properties, our popular containment grade AP25 is virtually unbreakable. Additionally, while AP25 does allow bullets to pass, it stops bad guys, and their guns, from getting inside. AP25 is the ultimate smash and grab defense for retail stores. Need more protection? We also offer ballistic rated panels that are designed to stop bullets of varying caliber, grain (weight), and velocity. Not only are the bullets stopped, but the bad guys remain outside where the police can more safely deal with the threat. Suited for either new construction projects or retrofits, ArmorPlast™ can be installed inside (back glazing) or outside (over glazing) your existing glass. Our ArmorPlast™ panels are part of a package that also includes a patent-pending framing system engineered to withstand a prolonged violent intrusion attempt. Narrow-profile frames can fail under sustained loads. Under attack, the frame becomes the weak link, displacing the security panel and allowing entry. Not so with ArmorPlast™. Together, our framing system and polycarbonate panels create a formidable barrier to entry with superior appearance and durability. For a finished look, all the tamper resistant hardware is hidden behind an attractive, low-profile, protective cover. ArmorPlast™ framing is available in clear and bronze anodized aluminum.



Common Questions...

WHAT SIZES ARE AVAILABLE?

Security window film is available in 72" maximum widths at any height. Riot Glass™ (RG) and ArmorPlast™ (AP) are available in maximum sizes 72" X 96". If window openings exceed that size, we simply reconfigure the mullions.

WILL IT LOOK LIKE MY EXISTING GLASS?

3M™ Window Film, Riot Glass™ and ArmorPlast™ all look like regular glass. Depending on the thickness, visual acuity can be slightly affected, but overall you won't see a distinguishable difference. Yellowing is not a concern and is covered by the warranty. For added safety, all three products allow police and patrol services to see inside your property.

HOW DO I CLEAN AND CARE FOR SECURITY GLASS?

Traditional cleaning methods work on all types of security glass. In varying ways, all of our security glass products have a protective outer layer to avoid scratching and marring. The process is similar to caring for a new car. You put it through all kinds of paces every day, but you do so with care and attention to detail. Treat security glass the way you would the finish on a fine automobile and you'll enjoy years of trouble-free service.

WHAT IS THE WARRANTY ON THE GLASS AND FRAMING?

Warranties vary by product and can also change depending on whether the application is commercial or residential. In some cases, our products carry a limited lifetime warranty, while others are protected for up to 15 years. Your security specialist will provide details on both warranty coverage and life expectancy for your specific product needs.

HOW DO I KNOW IT WILL WORK?

All of our products have been thoroughly tested in highly accredited laboratory settings and, more importantly, in real-world situations. While there are no ironclad guarantees, every retail store, commercial building, school, and home needs some level of security glass protection. Security glazing products are designed to delay and deter, and in many cases are the determining factor between life and death.

WHAT HAPPENS DURING A SITE INSPECTION?

Our security specialists will do a complete threat assessment, discuss your goals, and provide a detailed, easy-to-read proposal. We will also measure your windows and frames, then evaluate the overall condition and retrofit adaptability to determine the best solution for your property.

DO I NEED TO REMOVE SIGNAGE AND GRAPHICS?

It depends on which product you select and where the graphics are displayed. During the site inspection, our expert security consultant will advise whether graphics must be removed and replaced or stay intact.

WHAT IS UL 752? WHAT'S THE DIFFERENCE BETWEEN BALLISTIC AND NON-BALLISTIC RATINGS?

Underwriters Laboratories™ offers multiple ballistic rating levels. Designed to measure bullet resistance, ballistic ratings factor in the grain (weight), caliber, and velocity of the ammunition. Non-ballistic (containment grade) ArmorPlast™ products allow bullet penetration, but won't break down or appreciably diminish in strength. In other words, the bullets leave holes, but the panels remain intact, keeping intruders out of the building.



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