



SAFETY & SECURITY

Safety and security window film helps hold your glass in place during destructive weather conditions, earthquakes, bomb blasts, explosions, or smash and grab burglaries. It helps maintain the integrity of a structure's outer shell to keep wind, rain and flying glass fragments from wreaking havoc inside the structure. Our films can also reject harmful UV rays, which cause fading and lower energy costs.

3M ULTRA FLEX SYSTEM

3M Safety and Security Films are one of the most vigorously tested window films out there. Windstorms, bomb blasts, flying objects, we have tested them all to make sure our films not only meet, but exceeds industry standards for impact and tear resistance. Our most durable system in severe conditions is the 3M Ultra flex system.

HOW IT WORKS

This system combines the elasticity of the 3M Ultra Safety and Security Window Film and Dow Corning 995 Silicone Structural Adhesive system that creates a more flexible membrane to capture and absorb the impact energy. 3M Ultra flex Window System allows the frame to bend and twist to accommodate a variety of impact stresses, increasing personal safety from flying glass. For ease of use, the Ultra flex System offers a simple, more cost effective attachment system when compared to more bulky mechanical attachment alternatives. The Ultra flex System will replace the window gasket and blend with the frame system to look as good as the gasket it replaces.

MORE THAN JUST GLASS PROTECTION

Although it's main job is protection, safety and security window films can also alleviate sun control problems. When a tinted safety or security film that is selected, you receive additional benefits from the film such as reduces energy costs from reflected heat, reduced glare and improved comfort.

A national retail chain recently experienced a break-in at a store in Stuart, Florida. Burglars smashed through the windows, reached in, and quickly grabbed \$35,000 worth of jewelry, before police officers could respond to the store's security alarm. The company wanted to do something to defend its assets in the event of another burglary attempt.

TESTED TOUGH

To increase public safety, lawmakers developed human impact standards mandating specific strength levels for glass. Climate Insulating Products carries only window films that pass and meet certain standards. All installers are certified to install safety and security film. To reach the required levels, glass had to be tempered or heat strengthened, however annealed glass needs window film or other enhancements to achieve compliance when necessary. The two most commonly accepted human impact standards are:

- * American National Standards Institute (ANSI) Z 97.1 – testing involves glass impact of 100 and 150 foot pounds, the standard most commonly used for residential applications.
- * Consumer Products Safety Commission (CPSC) Code Federal Regulations (CFR) 1201, category II – testing involves glass impact of 400 foot pounds, the standard more commonly used for commercial applications.
- * ANSI Z97.1 and CPSC 16 CFR 1201 Cat I and II
- * General Services Administration (GSA) Level 3b United Facilities Criteria (UFC)
- * ASTM Large Missile Level C and Small Missile requirements
- * Underwriters Laboratory UL972 Forced Entry requirements
- * Factory Mutual FM Approvals 4350 Small Missile
- * EN356, level P2A