



SOLARSHIELD
Solutions for Glazing

3M Ultraflex Window System

The flexible window system designed to unyielding safety standards

3M™ Ultra Window Film



Silicone Structural Adhesive



3M™ Ultraflex Window System



With 3M Ultraflex Window System, you can improve life safety and the overall performance of a 3M™ Ultra Safety and Security Window Film window system.

This unique system combines the elasticity of the 3M Ultra Safety and Security Window Film (140%) and a Dow Corning® 995 Silicone Structural Adhesive system (160%) that creates a more stretchable membrane to help capture and absorb the impact energy.

The flexibility of this system will also increase the ability of the system to cycle due to blast pulse and wind storm energies that create positive and negative pressure effects or by twisting forces associated with earthquakes. In addition, resistance to smash-and-grab and forced-entry impacts can also be improved with the installation of Ultraflex.

3M Ultraflex Window System allows the frame to bend and twist to accommodate a variety of stresses, increasing personal safety from flying glass. For ease of use, the Ultraflex System offers a simple, more cost effective attachment system when compared to more bulky mechanical attachment alternatives. The Ultraflex System will replace the window gasket and blend with the frame system to look as good as the gasket it replaces.

Tested in compliance with the US General Services Administrations (GSA) test standard protocol and Factory Mutual (FM) FMRC 4350, Ultraflex is an innovative approach to a tough job, making sure the filmed glass system stays in the frame upon impact and cycling.

Film Specifications:

Film: SCLARL400, S20SIAR400, S35NEAR400, S50NEAR400, ULTRA600, ULTRA PRS70.

Color: Clear, Neutral and Silver

Applicable Standards:

- ASTM F1642-96 (adaptation) General Services Administration, Standard Test Method for Glazing and Glazing Systems Subjected to Airblast Loadings.
- Factory Mutual Research 4350 Approved Standard for Windstorm Resistant Fenestrations.
- Consumer Products Safety Commission CFR16, Part 1202 Safety Standards for Architectural Glazing Material.

Sealant Specifications:

Form: Normally supplied as a disposable plastic cartridge that fits normal caulking guns.

Color: Black / White

Applicable Standards:

- Federal Specification TT-S-001543A (COM-NBS) Class A for silicone building sealants.
- Federal Specification TT-S-00230C (COM-NBS) Class A for one-component building sealants.
- ASTM Specification C-920 Type S, Grade NS, Class 25, Use NT, G and A.

Ultraflex Window System Features:

Flexibility: The combination of film elongation and sealant stretch allows system to capture and return energy like a shock absorber.

Easy To Use: No drilling, tapping or running drill holes into the frame.

Appealing: No unsightly massive metal battens to add to the frame.

Easy To Install: Can be installed at the time film is applied by a 3M Authorized Dealer.

Appearance: When installed correctly, 3M Ultraflex Window System will replace window gasket and blend with the frame system to look as good as the gasket it replaces.

Strong: Bonds extremely well to many different surfaces.

Tough: Offers more overall strength than a tape system and more flexibility than batten systems.

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