

TechnoFilm™ CWF

Security Window Film

PRODUCT DESCRIPTION

TechnoFilm™ CWF is a specialized, transparent, and flexible security window film with a thickness of 200 µm, designed to enhance the protection and resistance of glass systems against mechanical and security threats.

The film creates a strong and continuous reinforcing layer over the glass surface, helping to increase the integrity of the glazing system, improve resistance to severe impacts, and reduce the possibility of penetration through the glass.

Unlike conventional safety window films, which are primarily designed to control glass fragments after breakage, TechnoFilm™ CWF is developed for specialized security and protective applications, including resistance to repeated impacts, attacks using hand tools such as hammers and sledgehammers, forced-entry attempts, and other intrusion scenarios.



Impact
Resistance



UV
Protection



Forced
Entry
Delay



Security
Protection



Blast
Protection



Glass
Fragment
Retention

TECHNICAL DATA

Product Name	TechnoFilm™ CWF
Type	Security Window Film
Structure	Multi-layer polyester film
Appearance	Transparent
Available Thicknesses	200 µm
Adhesive System	Pressure-Sensitive Adhesive (PSA)
Tensile Strength	30–50 MPa
Breaking Strength	800–1200 N/m
Elongation at Break	100–250%
Peel Strength	15–30 N/cm
UV Performance	Up to 99% UV blocking
Scratch-Resistant Coating	Available
Applicable Surface	Flat and curved glass
Shelf Life Before Installation	1–2 years
Expected Service Life After Installation	Up to 10 years
Storage Temperature Range	5–25°C
Suitable Glass	6 mm and above / Tempered Glass



ADVANTAGES

- Enhanced Security
- Glass Reinforcement
- Impact Resistance
- Forced Entry Delay
- Anti-Intrusion Protection
- For 6 mm+ Glass
- Tempered Glass Compatible
- High Transparency
- Up to 99% UV Protection
- Scratch Resistant
- Security Glazing Compatible

Applications

Banks and Financial Facilities

- Bank branches
- Exchange offices
- Security rooms
- Service counters
- Controlled entrances

Sensitive and Security Facilities

- Government buildings
- Control centers
- Critical infrastructure
- Specialized industrial facilities
- Security facilities

High-Security Commercial Facilities

- High-value display windows
- Retail stores containing valuable goods

- Security entrances
- Specialized commercial facilities

High-Security Residential and Commercial Buildings

- Main entrances
- Windows facing public areas
- Areas with enhanced security requirements
- Villas and buildings requiring increased physical protection

Installation Procedure

The glass surface is thoroughly cleaned and dried before installation. The film is cut according to the glass dimensions and applied using a suitable installation solution. After accurate positioning, trapped water and air are removed using appropriate installation tools. The edges are then trimmed and the surface is inspected for adhesion, bubbles, wrinkles, and overall installation quality.

After installation, the film should be allowed to stabilize for at least **24–48 hours** under suitable conditions.

Storage

When properly installed and used under suitable conditions, the expected service life of TechnoFilm™ CWF can be up to **10 years**. Before installation, the product should be stored at **5–25°C**, away from direct sunlight, moisture, contamination, and extreme temperature fluctuations.

Packaging

- Roll Length: 50 m
- Available Widths: 1.52 m

