

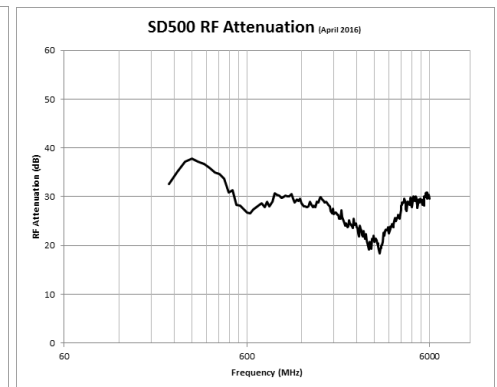
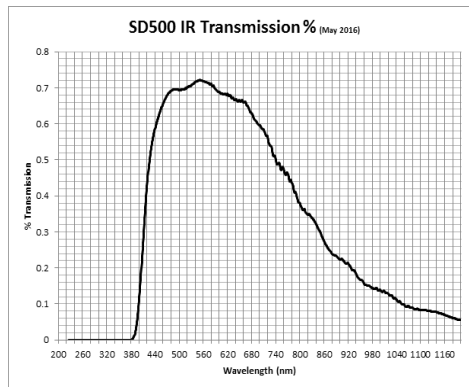
Signals Defense's patented surface applied window films have been the U.S. Government's choice for TEMPEST protection. Signals Defense window films provide high RF (Radio Frequency) and IR (Infrared) attenuation with high visible light transmittance and low reflectivity resulting in minimal aesthetic impact. As a result of the high attenuation provided by SD Technology, existing buildings fitted with windows may be converted to SCIF (Sensitive Compartmented Information Facility) standards. SD Technology is available in Film, Glass, Polycarbonate and Preconstructed Panels.

## PERFORMANCE CHARACTERISTICS

|  |           |
|--|-----------|
| RF Attenuation (700 MHz – 6 GHz)         | Avg >26dB |
| IR Transmission (940 nm)                 | < 15%     |
| Ultraviolet Transmission (<380 nm)       | < 1%      |
| Visible Light Transmission* (400-780 nm) | 70%       |
| Visible Light Reflectance (400-780 nm)   | 8%        |
| Total Solar Energy Rejected              | > 50%     |
| Shading Coefficient                      | 0.51      |
| Solar Heat Gain Coefficient              | 0.44      |
| Estimated Thickness                      | 0.002"    |

## BENEFITS

- ◆ Anti-eavesdropping and TSCM (Technical Surveillance Counter-Measure ) security
- ◆ Added security for WLAN (Wireless Local Area Network) or 802.11 and other wireless technologies
- ◆ Energy savings and possible LEED credits
- ◆ Electromagnetic Interference (EMI) protection and RF Shielding for both equipment and people
- ◆ UV (Ultraviolet) protection for fade control and health



## PRODUCT OVERVIEW

### Intended Use:

To provide RF and IR attenuation for mitigating electronic eavesdropping. Enabling high visible light transmittance and low reflectivity through glass for EMI sheltering.

### Areas of Application:

Government and Commercial facilities

## STRUCTURE

Multiple layers of metal and metal oxides, sputter coated on PET surface. An RF notch filter allows visible light transmission. SD maintains strict guidelines on our RF/IR performance.

### Adhesive Type:

Clear Distortion Free (CDF)  
Pressure-Sensitive (PS)

## STORAGE

Store in a cool, dry place. Keep packages closed to prevent contamination.

## CARE AND MAINTENANCE

For best results, clean windows with a soft, clean, rubber squeegee, cotton, or microfiber cloth and common household -strength liquid glass cleaner such as Windex®, GlassPlus®, or silicone cleaner/polisher specifically made for window films.

## MATERIAL SAFETY

See film and sealant Material Safety Datasheets (MSDS)

## APPLICATION

**Areas of Application:** Interior and exterior glass.

**Surface Preparation:** The glass surface to which the shatter-resistant window film is to be applied should be clean and free of paint, foreign compounds, smears, and spatters.

**Sealant:** Dow Corning 995

**Curing Period:** 7-60 days

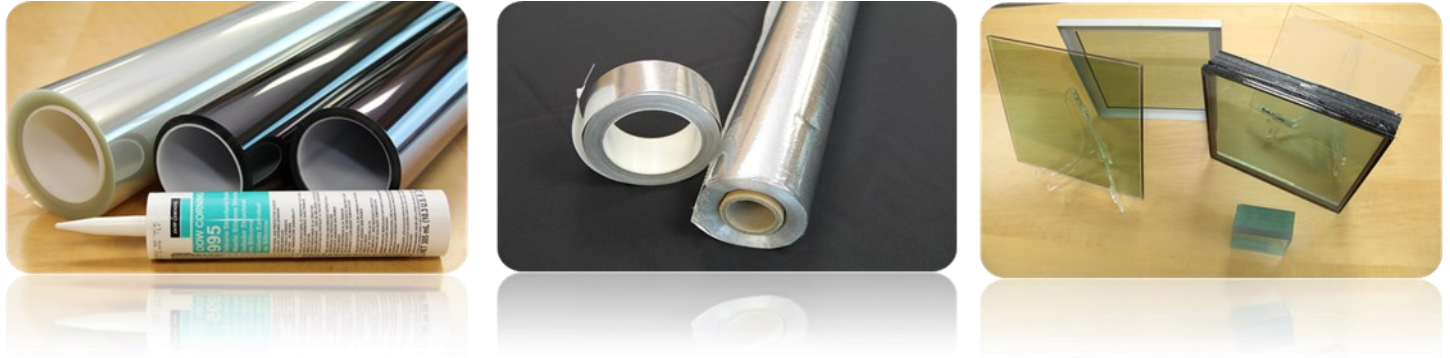
## WARRANTY

Signals Defense signal protection film is warranted against crazing, cracking, peeling, demetalizing, bubbling and delaminating, for a period of 3-10 years from the date of original installation and subject to existing glass conditions. Additional extended warranty available upon request and with prior approval. Full terms, conditions, and warranty information is available upon request.

# Architectural Shielding

Since 2000, Signals Defense's patented surface applied window films and glass products have been the U.S. Government's choice for TEMPEST film protection. Signals Defense window technology provides high Radio Frequency (RF) and Infrared (IR) attenuation with high visible light transmittance and low reflectivity resulting in minimal aesthetic impact. As a result of the high attenuation provided by SD Technology, existing buildings fitted with windows may be converted to Sensitive Compartmented Information Facilities (SCIF) ICD 705 standards. SD Technology is available in Film, Glass, and Polycarbonate. Mesh and foil architectural shielding materials are also available.

From a TSCM (Technical Surveillance Counter-Measure) perspective, Signals Defense Films is the least expensive method to mitigate the largest amount of eavesdropping and espionage techniques.



## About Us

Signals Defense technology is the de facto written standard for the US Government and organizations desiring to properly secure locations handling sensitive and/or classified information. Signals Defense helps shield a building and protect enterprise data: sensitive files and emails; confidential customer, patient and employee data; financial records; strategic and product plans; and other intellectual property.

In addition, our film technology offers an element of security that no one else can currently provide helping to protect from inside and outside leakage of sensitive materials and information. Our company has expanded to offer other RF and IR shielding materials to include rFoil and paints. We also offer shades and blinds that are designed to shield against harmful UV/solar energy and provide additional privacy.

We serve industry leaders in many sectors including financial services, healthcare, government, public, industrial, insurance, energy and utilities, consumer and retail, education, media and entertainment, and technology.



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