



Overview

PermaGuard™ 14 Mil Security Film is a premium multi-layer clear safety and security film engineered to reinforce glass and provide exceptional protection against forced entry, impact, explosion, and severe weather. With optical clarity and strong adhesive bonding, it enhances occupant safety while maintaining a clean, transparent appearance suitable for commercial and residential applications.

Key Benefits

- ✓ Reinforces glass to resist breakage, shattering, and intrusion
- ✓ Multi-ply laminate for maximum tensile and tear strength
- ✓ Clear optical quality maintains natural light and visibility
- ✓ Blocks > 99 % of UV rays to reduce fading and skin exposure
- ✓ Compatible with most glass types and glazing systems
- ✓ Available in **single or anchored systems** for added strength

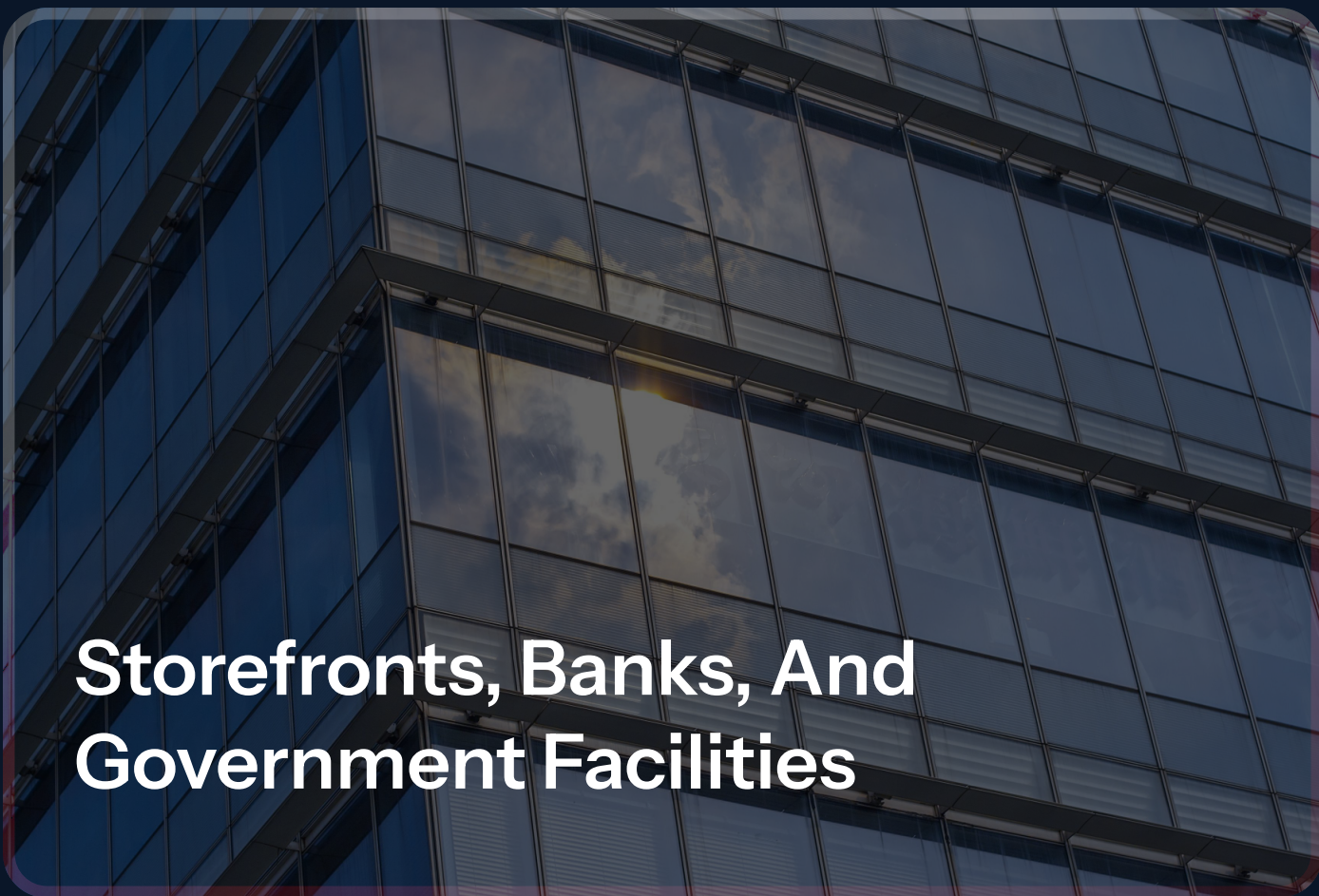
Physical Properties

Property	14 Mil Clear Film	Test Standard
Total Film Thickness	0.0135" (14 mil)	ASTM D3652
Structural Component	0.012"	ASTM D3652
Construction	Multi-Ply Laminate	—
Adhesive Type	Acrylic Pressure-Sensitive	ASTM D3330
Tensile Strength	325 lbs/in (width)	ASTM D882
Break Strength	325 lbs/in (width)	ASTM D882
Peel Strength	Excellent – High Bond	ASTM D3330
Elongation @ Break	150 % (min)	ASTM D882

Optical & Solar Performance

Metric	14 Mil Clear
Visible Light Transmission	87 %
Visible Light Reflected External	9 %
Visible Light Reflected Internal	9 %
Glare Reduction	3 %
Total Solar Energy Transmitted	75 %
Total Solar Energy Reflected	8 %
Total Solar Energy Absorbed	18 %
Shading Coefficient (SC)	0.92
Solar Heat Gain Coefficient (SHGC)	0.80
U-Factor	1.03
UV Rejection	≥ 99 %
Emissivity	0.87
Light-to-Solar Gain Ratio	1.08
Total Solar Energy Rejected (TSER)	20 %
Infrared Rejection (IRR)	33 %
Infrared Energy Rejection (IRER)	23 %

Applications



12 year limited warranty against peeling, bubbling, cracking, or delamination when installed by an authorized PermaGuard™ dealer.



PERMAGUARD
PROTECTION PERFECTED

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Protection Perfected.



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