Safety and Security Window Films

MADICO®

The Clear Choice for Safety & Security Film

About Madico

Headquartered in Tampa Bay, Florida, Madico, Inc. innovates, manufactures, and distributes a broad range of protective, functional and decorative materials-based solutions including films, coatings and laminates for various industries worldwide from automotive and architecture to healthcare and aerospace. Since 1903, Madico has pioneered industry-first products with an unrivaled commitment to quality and dedication to its customers. Madico is a fully-owned subsidiary of Lintec USA Holdings, Inc. For more information, visit www.madico.com.

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NFRC
MEMBER

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COATERS AND LAMINATORS

AMERICAN
SOCIETY OF
INTERIOR
DESIGNERS
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ID
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AIA
Continuing
Education
Provider

RECOMMENDED
SKIN
CANCER
FOUNDATION

All Madico commercial window films are recommended by the Skin Cancer Foundation

ARCAT®

Visit us online for CSI Specifications

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Madico Safety and Security Window Films Protect People and Property

Safety and security window films from Madico help reduce the risk of personal injury, property damage and loss caused by natural disasters, burglary, vandalism and accidents. Available in a range of shades, finishes and thicknesses, our safety films are designed with protection in mind.
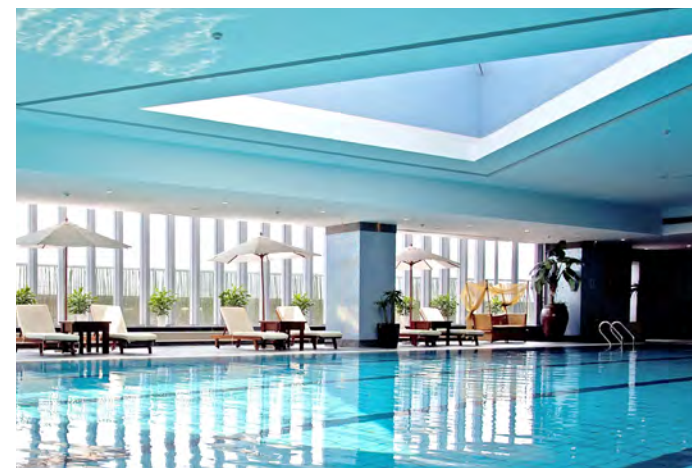
Glass shards and debris can cause severe damage to people and property while exposing your building or home's interior to water, wind and other perils. Reduce the risk with safety and security films from Madico. Safety film provides passive protection 24 hours a day.

Madico security films are also designed to mitigate smash-and-grab theft and prevent costly, disruptive damage to your business property and merchandise. In buildings where the government mandates tempered glass, Madico safety and security films can bring buildings up to code requirements at costs far below those of replacing existing windows.

Madico safety films also can help protect school campuses and occupants against intrusion, active shooter incidents, burglary and vandalism. Madico safety films seamlessly integrate with your existing campus security measures.

Madico safety and security films have been extensively tested by independent testing facilities and meet safety glazing criteria as defined by CPSC, the U.S. Consumer Product Safety Commission and Underwriters Laboratories.

In addition to installing safety film on glazing systems, it also can be used to protect vending machines, retail display cases, skylights, mirrors, glass room partitions, elevators, escalators and more.

Safety Glazing Solutions for Every Application

Safety and Security Film Benefits:

- 24/7 passive, invisible protection
- Holds broken glass together
- Available in clear, tinted and reflective versions for all applications
- Cost-effective safety glazing
- Tested to meet or exceed safety code
- Professionally installed in commercial and residential applications
- Mitigates damage
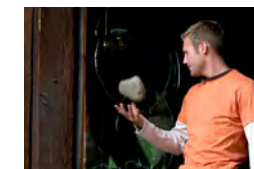- Protects building occupants

Threat Mitigation

Break-ins and smash & grab *Severe weather* *Accidental breakage* *Vandalism & civil unrest*

Manufactured by Madico

When you purchase Madico film, you can rest assured that you have selected a high quality and extensively tested product. Headquartered in the Tampa Bay region of Florida, Madico manufactures and distributes high performance window films for automotive, architectural, and safety and security applications through nine company-owned distribution centers in North America as well as an extensive international distribution network.

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Safety Film Testing Matrix

Film				
Test	**CL-400**	**CL-700**	**CL-800**	**CL-1400**
Impact - Safety Glazing				
ANSI Z97.1	Pass	Pass	Pass	
CPSC Part 1201.4 Cat I	Pass	Pass	Pass	
CPSC Part 1201.4 Cat II		Pass	Pass	
EN 12600 2B	Pass			
EN 12600 1A		Pass	Pass	Pass
LABC	Pass			
Fire Testing				
Ignition Temperature ASTM D-1929		Pass	Pass	
Rate of Burning ASTM D-635		Pass	Pass	
Surface Flammability ASTM E-162	Pass			
Fire Tests of Window Assemblies ASTM E-2010 - No affect on fire rated glass	Pass	Pass	Pass	Pass
Surface Burning Characteristics ASTM E-84	Pass	Pass	Pass	
Ignitability Test BS 476 Part 5			Pass	
Fire Propagation BS 476 Part 6	Pass			
Surface Flammability BS 476 Part 7	Pass			
Fire classification EN 13501 (EN ISO 11925, EN 13823)			Pass	

Safety & Security Film Performance Measurements

Film	% Visible Light				% Total Solar Energy			Shading Coefficient (SC)	Solar Heat Gain Coefficient (SHGC)	U Factor	UV Rejection	Emissivity	Light to Solar Gain	Total Solar Energy Rejected (TSER)	IR Rejection*	Infrared Energy Rejection (IRER)
	Trans.	Reflected External	Reflected Internal	Glare Reduction	Trans.	Reflected External	Absorbed								
Clear 4 Mil	87%	9%	9%	2%	75%	8%	18%	0.92	0.80	1.03	≥ 99%	0.86	1.08	20%	31%	23%
Clear 7 Mil	88%	9%	9%	1%	75%	7%	18%	0.93	0.81	1.05	≥ 99%	0.91	1.09	20%	32%	23%
Clear 8 Mil	86%	9%	9%	3%	73%	8%	20%	0.90	0.79	1.05	≥ 99%	0.90	1.09	21%	36%	26%
Clear 14 Mil	87%	9%	9%	3%	75%	8%	18%	0.92	0.80	1.03	≥ 99%	0.87	1.08	20%	33%	23%
Silver 20 4 Mil	18%	55%	57%	80%	12%	45%	43%	0.27	0.24	0.90	≥ 99%	0.60	0.75	76%	95%	78%
Silver 40 4 Mil	44%	27%	26%	51%	32%	24%	44%	0.51	0.44	0.94	≥ 99%	0.68	0.99	56%	82%	62%
Silver 20 8 Mil	17%	56%	58%	81%	12%	45%	43%	0.27	0.23	0.88	≥ 99%	0.58	0.74	77%	95%	78%
Silver 40 8 Mil	44%	28%	27%	51%	31%	24%	45%	0.51	0.44	0.95	≥ 99%	0.70	0.99	56%	83%	62%
Neutral Grey 35 8 Mil	36%	15%	22%	60%	28%	15%	57%	0.51	0.45	0.96	≥ 99%	0.73	0.80	55%	82%	59%
Neutral Grey 45 8 Mil	43%	14%	17%	51%	34%	14%	52%	0.57	0.49	0.95	≥ 99%	0.71	0.88	51%	76%	55%
Clear 7 Mil Exterior	88%	8%	8%	1%	76%	7%	18%	0.93	0.81	1.02	≥ 99%	0.87	1.09	19%	32%	23%
Graffiti-Free® 4 Mil	89%	9%	9%	1%	77%	8%	15%	0.94	0.82	1.02	≥ 99%	0.84	1.08	18%	28%	21%
Graffiti-Free® 6 Mil	87%	10%	10%	3%	76%	9%	15%	0.93	0.81	1.02	≥ 99%	0.84	1.07	19%	29%	22%

Read in accordance with National Fenestration Rating Council (NFRC) standards and calculated on single pane 6mm (1/4") clear glass.
*IR Rejection is tested in the IR range of 780 to 2500 nanometers.

Reported values are typical properties and should not be used as a specification. Since only the user is aware of the specific conditions in which the product is to be used, it is the user's responsibility to determine whether the product is suitable for that intended use. If the specific conditions of use are critically dependent on any of the properties of the product, or if you need further information, contact Madico, Inc. or your local Madico film dealer.

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Physical Properties	Film Thickness	Structural Component	Structure	Adhesive Type	Tensile Strength	Break Strength	Peel Strength
Clear 4 Mil	0.0045"	0.004"	Single Ply			100 lbs. Per Inch (Width)	
Clear 7 Mil	0.008"	0.007"	Single Ply			175 lbs. Per Inch (Width)	
Clear 8 Mil	0.0095"	0.008"	Multi-Ply Laminate			200 lbs. Per Inch (Width)	
Clear 14 Mil	0.014"	0.0135"	Multi-Ply Laminate			325 lbs. Per Inch (Width)	
Silver 20 4 Mil	0.005"	0.0045"	Multi-Ply Laminate	Acrylic Pressure Sensitive	25,000 PSI Avg. MD/TD	100 lbs. Per Inch (Width)	5 to 6 lbs. Per Inch
Silver 40 4 Mil	0.005"	0.0045"	Multi-Ply Laminate			100 lbs. Per Inch (Width)	
Silver 20 8 Mil	0.010"	0.0085"	Multi-Ply Laminate			200 lbs. Per Inch (Width)	
Silver 40 8 Mil	0.010"	0.0085"	Multi-Ply Laminate			200 lbs. Per Inch (Width)	
Neutral Grey 35 8 Mil	0.010"	0.0085"	Multi-Ply Laminate			200 lbs. Per Inch (Width)	
Neutral Grey 45 8 Mil	0.010"	0.0085"	Multi-Ply Laminate			200 lbs. Per Inch (Width)	
Clear 7 Mil Exterior	0.008"	0.007"	Single Ply			175 lbs. Per Inch (Width)	
Graffiti-Free® 4 Mil	0.004"	0.004"	Single Ply			100 lbs. Per Inch (Width)	3 to 4 lbs. Per Inch
Graffiti-Free® 6 Mil	0.007"	0.006"	Multi-Ply Laminate			150 lbs. Per Inch (Width)	

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GRAFFITI FREE®
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Product Guide

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GRAFFITI FREE®
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Prevent Permanent Damage from Vandalism

Madico Graffiti Free films act as a sacrificial barrier to help control vandalism and provide a cost-effective alternative to replacing damaged glazing. Graffiti Free films are easily installed and replaced so glazing will always look its best.

Effective in transit systems and other high traffic public areas, Graffiti Free is the solution to keeping vandals at bay. Once defaced, the film is removable for easy replacement, improving turnaround time for maintenance and saving cities thousands of dollars each year in costly repairs.

Graffiti Free frequently is applied on retail windows, in schools and other places where graffiti and vandalism are common problems. By installing Graffiti Free film, glass is protected and financial resources can be used for more important projects.

Graffiti Free also helps increase glass safety by holding broken glass together in the event of glass breakage due to vandalism or accidents.

Glazing Solutions for Safety and Security

Graffiti Free Benefits:

- Invisible vandalism protection
- Optically clear
- Easy installation and removal
- Retains broken glass fragments
- Protects against scratches, spray paint and acid etching
- Cost-effective alternative to glass replacement
- Available in 4 and 6 mil versions

Common Applications:

- Transit systems
- Retail storefronts
- Schools
- Elevators and escalators
- Vending machines
- Public restrooms
- Museums

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Graffiti Free 600

Graffiti Free 600 helps prevent damage to glass from vandalism by providing a replaceable layer of protection. Graffiti Free is optically clear and can be used on the exterior or interior surface of glass. Popular uses include storefront windows, public transportation, restrooms, elevators and vending machines.
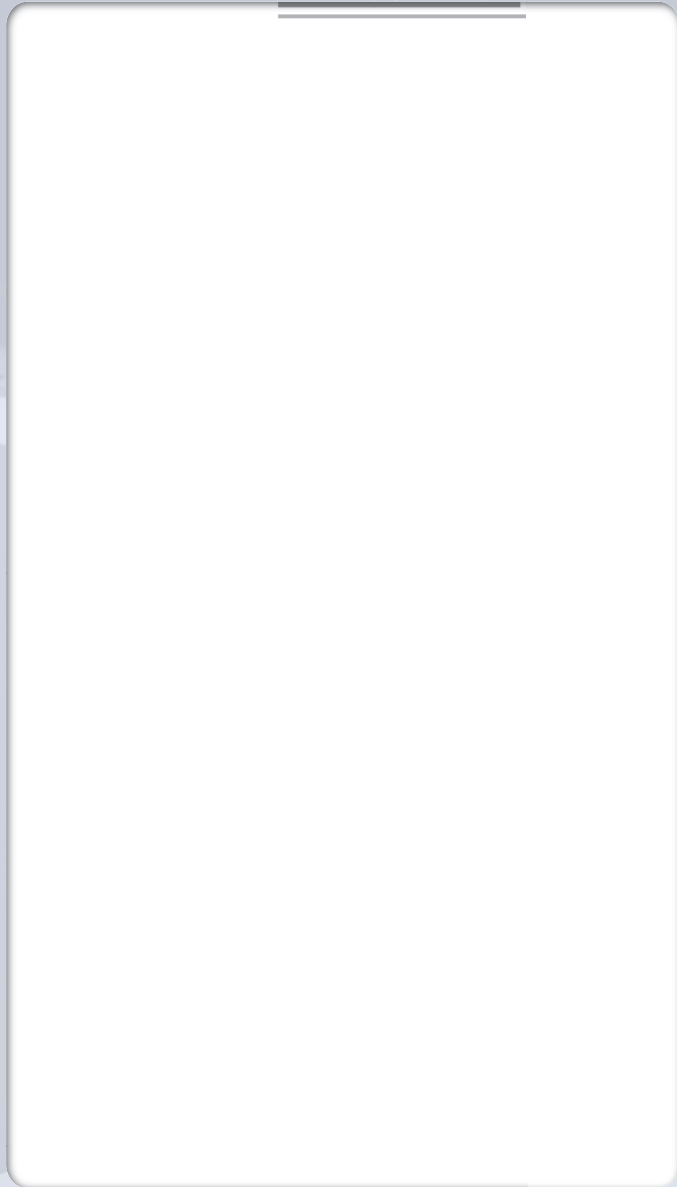
Product Benefits

- Invisible Vandalism Protection
- Removable and easily Maintained
- Optically Clear and Distortion Free
- Holds Broken Glass Together

Why Madico?

Madico window films are an elegant, practical solution for comfort, protection and natural appearance. With over 100 years of innovation, Madico is a leading provider of advanced products engineered to meet your needs. When selecting the right window film for your home or building, you can trust in our professionally installed quality products.

About Madico

Headquartered in Tampa Bay, Florida, Madico, Inc. innovates, manufactures, and distributes a broad range of protective, functional and decorative materials-based solutions including films, coatings and laminates for various industries worldwide from automotive and architecture to healthcare and aerospace. Since 1903, Madico has pioneered industry-first products with an unrivaled commitment to quality and dedication to its customers. Madico is a fully-owned subsidiary of Lintec USA Holdings, Inc. For more information, visit www.madico.com.

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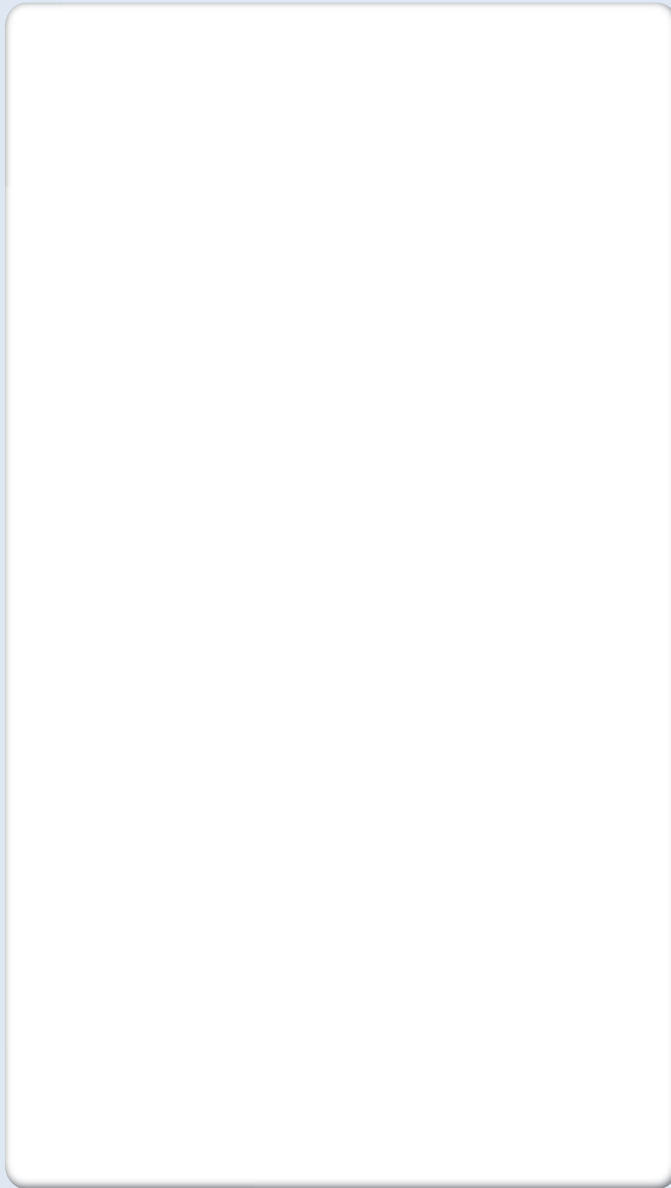contact@madico.com   •   madico.com

Graffiti Free 600
CSI Specification

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Graffiti Free 600

Performance Measurements

Visible Light:

Transmitted..87%
Reflected Exterior...10%
Reflected Interior...10%
Glare Reduction..3%

Total Solar Energy:

Transmitted..76%
Reflected 9%
Absorbed..15%

Shading Coefficient...0.93
Solar Heat Gain Coefficient...................................0.81
U Factor...1.02
Ultraviolet Rejection ....exceeds 99%
Emissivity..0.84
Light to Solar Gain...1.07
Total Solar Energy Rejection.................................19%
Infrared Rejection*..29%
Infrared Energy Rejection 22%

Physical Properties:

Film Thickness ....0.007"
Structural Component ....0.006"
Structure .... Multi-Ply Laminate
Adhesive Type ....Acrylic Pressure Sensitive
Tensile Strength......................25,000 PSI Avg. MD/TD
Break Strength................ 150 Pounds Per Inch (Width)
Peel Strength............................3 to 4 Pounds Per Inch
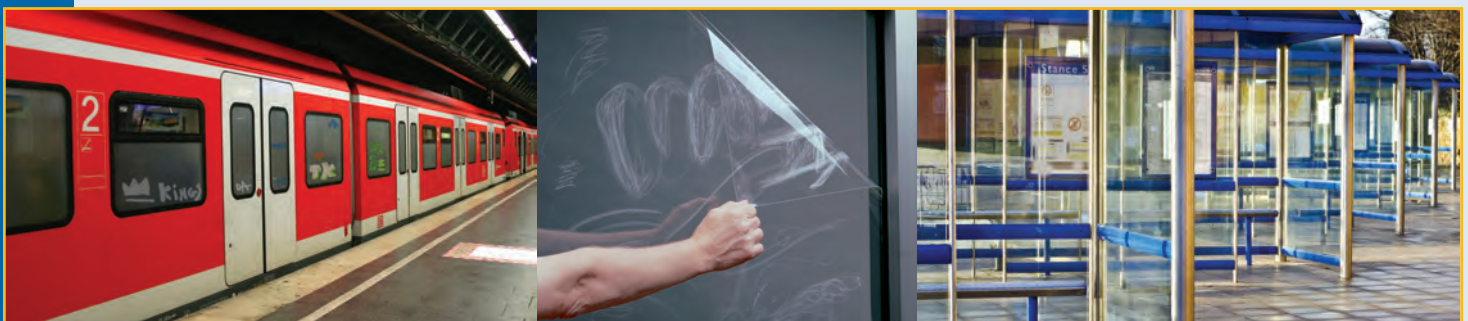
* Near IR range (780-2500nm)
Performance measurement definitions can be found
at www.madico.com

Read in accordance with National Fenestration Rating
Council (NFRC) standards on 6mm clear glass.

Independent test reports available upon request

Graffiti Free is independently tested and certified to U.S.A.
and international standards.

MADICO®
SAFETYSHIELD®
PREMIER PARTNER

Join Our Network of Certified Glazing Safety and Security Professionals

SafetyShield Premier Partners are a global network of factory-trained and certified, consulting dealers who specify, contract and install customized safety & security film solutions worldwide. As a Premier Partner, you can expect sales, technical and marketing support in addition to assistance with lead acquisition.

The SafetyShield Program Offers:

- Comprehensive training designed to help you identify and evaluate safety & security threats from terrorism, industrial accidents, spontaneous glass failure and more.

- Exclusive safety & security film product offering, including three proprietary attachment systems.

- Certified security film & attachment system installation training for all applications.

- Access to exclusive SafetyShield testing reports and data which meet various customer specification requirements for safety glazing.

- Project lead opportunities through the Madico contract sales division.

- Recognizable introduction for United Nations, WFP, WHO, and the US Department of State.

- International project opportunities without restricted sales territories.

- A dedicated technical and sales support staff ready to assist you in evaluating opportunities and specific product needs.

- Complete marketing support including printed literature, digital marketing resources and company listing on the Madico website.

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Ready to Become a SafetyShield Premier Partner? Contact us for more details about how you can become a certified installer of Madico SafetyShield products.

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