

# SAFETYSHIELD®

BY MADICO

## SafetyShield 800 DG 45

SafetyShield safety & security films provide 24-hour protection against vandalism, severe weather and accidents involving broken glass. SafetyShield also reduces unwanted UV exposure and fading of furnishings.

### Product Benefits

- Invisible Protection
- Multi-Ply Construction
- Holds Broken Glass Together
- Rejects over 99% of UV Rays
- Reduces Fading of Fabrics, Flooring

### Why SafetyShield®?

SafetyShield films and attachment systems help protect against intrusion and provide blast mitigation in a variety of situations. Safetyshield products are tested under extreme conditions and are engineered to meet your high performance security needs. With over 100 years of innovation, Madico is a leading provider of 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](http://www.madico.com).





# SafetyShield 800 DG 45

## Performance Measurements

### Visible Light:

Transmitted.....	43%
Reflected Exterior.....	14%
Reflected Interior.....	17%
Glare Reduction.....	51%

### Total Solar Energy:

Transmitted.....	34%
Reflected .....	14%
Absorbed.....	52%

Shading Coefficient.....	0.57
Solar Heat Gain Coefficient.....	0.49
U Factor.....	0.95
Ultraviolet Rejection .....	Exceeds 99%
Emissivity.....	0.71
Light to Solar Gain.....	0.88
Total Solar Energy Rejection.....	51%
Infrared Rejection*.....	76%
Infrared Energy Rejection .....	55%

### Physical Properties:

Film Thickness .....	0.010"
Structural Component.....	0.0085"
Structure .....	Multi-Ply Laminate
Adhesive Type .....	Acrylic Pressure Sensitive
Long. Tensile Strength.....	28,000 PSI
Traverse Tensile Strength.....	36,000 PSI
Break Strength.....	240 Pounds Per Inch (Width)
Long. Elongation at Break.....	150%
Traverse Elongation at Break.....	100%
Yield Strength.....	14,000 PSI Avg. MD/TD
Elongation at Yield .....	120%
Peel Strength.....	5 to 6 Pounds Per Inch (Width)

\* Near IR range (780-2500nm)  
 Performance measurement definitions can be found at [www.madico.com](http://www.madico.com)

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

Independent test reports available upon request

### SafetyShield 800 DG 45 Performance on Installed Windows as Certified by the National Fenestration Rating Council (NFRC)

Type	Default Glazing Reference	SHGC without Film	SHGC With Film	VLT Without Film	VLT With Film	U Factor
Residential	3 mm (1/8in.) clear	0.72	0.42	0.74	0.36	1.02
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.64	0.47	0.67	0.33	0.69
Non Residential	6 mm (1/4in.) clear	0.73	0.45	0.78	0.38	0.96
Non Residential	6 mm (1/4in.) grey	0.52	0.37	0.39	0.19	0.96
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.63	0.49	0.69	0.34	0.57
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.41	0.34	0.35	0.17	0.57

† Dual pane window

#### Specification Use Statement

Reported values are typical properties and should not be used as a specification. Since 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 intended use. If you need verification regarding specific use or additional information, please contact Madico Window Films or your local Madico Authorized Dealer. Since there can be variations in published data between printed materials, please visit [madico.com](http://madico.com) for the latest reported performance measurements.