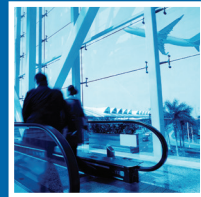


### Why SafetyShield?

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.



**MADICO®**

The Clear Choice for Safety Glazing Systems



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**SAFETYSHIELD®**  
BY MADICO

**Film Installation Guide**



# SafetyShield Film Installation Guide Table

The SafetyShield Film Installation Guide helps you choose the appropriate film and glass combinations in order to achieve the best performance for your customer and avoid costly glass breakage claims.

### How to Use This Table:

Use the table to find your glass type at the top, then move down to see what films are compatible with that glass type. Madico recommends using this table to make sure the product chosen for the installation will be safe for the type of glass being filmed. If you have any questions about this chart or encounter additional film and glass combinations not shown here, please contact the Madico Technical Services department at 727-388-2105.

Table Key:

✔ Recommended application

⚠ Pre-approval required before installation

🚫 This combination is prohibited and will not be covered under warranty.

**CAUTION:** If the film you are considering has a caution symbol, please contact Madico for approval before installing this product.

### What Causes Glass Breakage?

Glass breakage is caused by stress on the glass. There are five types of stress which may cause glass to break:

1. Thermal Stress - from absorption of solar radiation
2. Tensile Stress - from the weight of the glass itself
3. Mechanical Flexing Stress - from wind pressure
4. Impact Stress - from flying objects such as hail or storm debris
5. Twisting Stress - from a building or window frame sagging or settling

The first type, thermal stress, is the only type affected by the installation of window film. The use of window film will increase thermal stress on sunlit glass. However, there are other factors which increase thermal stress such as partial shading of windows from overhangs, tightly fitted drapes or blinds, signs and decals on windows, and heating or cooling vents directed at glass. In addition, different types of glass (annealed or tempered, clear or tinted) have different solar absorption rates and will withstand differing degrees of thermal stress.

**Warranty Coverage:** Please refer to your Madico Architectural warranty for specific limitations and restrictions for certain situations and glass types.

Product	Visible Light Transmitted*	Solar Energy Reflected*	Solar Energy Absorbed*	Single Pane					Dual Pane					
				Clear Annealed		H/S Tempered	Tinted Annealed		Clear Annealed		Outboard Tinted		Inboard Tinted	
				1/8"-1/4" Mono	1/8"-1/4" Mono	1/8"-3/8" Mono	1/8"-1/4" Mono	1/8"-1/4" Mono	1/8"-1/4" IG	1/8"-1/4" IG	1/8"-1/4" IG	1/8"-1/4" IG	1/8"-1/4" IG	1/8"-1/4" IG
				1-40 sq ft	40-100sq ft	1-100 sq ft	1-40 sq ft	40-100sq ft	1-30 sq ft	30-40 sq ft	1-30 sq ft	30-40 sq ft	1-30 sq ft	30-40 sq ft
SafetyShield 700	88%	7%	18%	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
SafetyShield 800	87%	8%	18%	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
SafetyShield 1500	85%	8%	21%	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
SafetyShield 800 RS 40	44%	24%	45%	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
SafetyShield 800 RS 20	17%	45%	43%	✔	✔	✔	⚠	⚠	✔	✔	⚠	⚠	⚠	🚫
SafetyShield 800 DG 45	43%	14%	52%	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	⚠
SafetyShield 800 DG 35	36%	15%	57%	✔	✔	✔	✔	⚠	✔	✔	✔	✔	⚠	🚫
SafetyShield 800 Optivision® 25	24%	27%	51%	✔	✔	✔	⚠	⚠	✔	✔	⚠	⚠	🚫	🚫
SafetyShield 800 Optivision® 15	14%	39%	47%	✔	✔	✔	⚠	⚠	✔	✔	⚠	⚠	🚫	🚫
SafetyShield 800 Nova 70	69%	28%	34%	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔

Product	Inboard/Outboard		Low-E						Triple Pane				Laminated
	Tempered		Standard		Plus or E2		Plus Plus or E3		Clear/Clear/Clear	Clear/Clear/Low E	Tinted/Clear/Clear	Tinted/Clear/Low E	Clear or Tinted
	1/8"-1/4" IG	1/8"-1/4" IG	1/8"-1/4" IG	1/8"-1/4" IG	1/8"-1/4" IG	1/8"-1/4" IG	1/8"-1/4" IG	1/8"-1/4" IG	1/8"-1/4" IG	1/8"-1/4" IG	1/8"-1/4" IG	1/8"-1/4" IG	Any Size
	1-30 sq ft	30-40 sq ft	1-30 sq ft	30-40 sq ft	1-30 sq ft	30-40 sq ft	1-30 sq ft	30-40 sq ft	1-40 sq ft	1-40 sq ft	1-40 sq ft	1-40 sq ft	
SafetyShield 700	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
SafetyShield 800	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
SafetyShield 1500	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
SafetyShield 800 RS 40	✔	✔	✔	✔	✔	✔	✔	✔	🚫	🚫	🚫	🚫	🚫
SafetyShield 800 RS 20	✔	✔	⚠	⚠	⚠	🚫	⚠	🚫	🚫	🚫	🚫	🚫	🚫
SafetyShield 800 DG 45	✔	✔	⚠	⚠	⚠	⚠	⚠	⚠	🚫	🚫	🚫	🚫	🚫
SafetyShield 800 DG 35	✔	✔	⚠	🚫	⚠	🚫	🚫	🚫	🚫	🚫	🚫	🚫	🚫
SafetyShield 800 Optivision® 25	✔	✔	⚠	⚠	⚠	🚫	⚠	🚫	🚫	🚫	🚫	🚫	🚫
SafetyShield 800 Optivision® 15	✔	✔	⚠	⚠	⚠	🚫	⚠	🚫	🚫	🚫	🚫	🚫	🚫
SafetyShield 800 Nova 70	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔

*\*Solar performance measurements are read in accordance with National Fenestration Rating Council (NFRC) standards on 6mm clear glass.  
Reported solar performance 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.*