



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.









Film Installation Guide

MADICO[®]

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What Causes Glass Breakage?

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

- 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.



The Madico 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 Chart:

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.

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



Table Key:

- Recommended application
- ⚠ Pre-approval required before installation
- This combination is prohibited and will not be covered under warranty.

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

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 or your local Madico Authorized Dealer. Since there can be variations in published data between printed materials, please visit madico.com for the latest reported performance measurements.

Film Installation Guide Table

Product		Solar Energy Reflected*			Sing	le Pane				Dual	Pane			Inboard/Outboard			Lov	w-E				Tripl	iple Pane		Lamina
	Visible Light		Solar Energy Absorbed*	Clear Annealed	H/S Tempered	Tinted Annealed		Clear Annealed		Outboard Tinted		Inboard Tinted		Tempered	Standard		Plus or E2		Plus Plus or E3		Clear/Clear/Clear	Clear/Clear/Low E	Tinted/Clear/Clear	Tinted/Clear/Low E	E Clear
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