

MADICO  
**SAFETYSHIELD®**  
**SAFETYSHIELD® 1500**

**Solar Optical Performance Data**

**Center of Glass Measurements:\***

**Total Solar Energy:**

Transmitted ..... 82%  
 Reflected .....10%  
 Absorbed .....8%

**Visible Light:**

Transmitted .....88%  
 Reflected Interior .....10%  
 Reflected Exterior ..... 10%

U Value.....1.09  
 Emissivity.....0.95  
 Ultraviolet Light Rejected .....99%  
 Shading Coefficient .....0.97  
 Solar Heat Gain Coefficient .....0.84

Total Solar Energy Rejected .....15%

**Window Performance:\*\***

SafetyShield 1500					
Type	Default Glazing Reference	SHGC No Film	SHGC With Film	VLT No Film	VLT With Film
Residential	3 mm (1/8in.) clear	0.71	0.69	0.74	0.72
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.63	0.62	0.67	0.66
Non Residential	6 mm (1/4in.) clear	0.75	0.73	0.80	0.78
Non Residential	6 mm (1/4in.) grey	0.53	0.53	0.40	0.39
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.65	0.63	0.71	0.70
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.42	0.42	0.36	0.35

\* Read in accordance with National Fenestration Rating Council (NFRC) standards on 3mm. clear glass.

\*\*As certified by the National Fenestration Rating Council (NFRC).

† Dual pane window



MADICO®  
**SAFETYSHIELD®**  
**SAFETYSHIELD® 800**

**Solar Optical Performance Data**

**Center of Glass Measurements:\***

**Total Solar Energy:**

Transmitted ..... 83%  
 Reflected .....9%  
 Absorbed ..... 8%

**Visible Light:**

Transmitted .....88%  
 Reflected Interior ..... 10%  
 Reflected Exterior .....10%

U Value .....1.10  
 Emissivity .....0.96  
 Ultraviolet Light Rejected ..... 99%  
 Shading Coefficient.....0.97  
 Solar Heat Gain Coefficient .....0.84

Total Solar Energy Rejected ..... 15%

**Window Performance:\*\***

SafetyShield 800					
Type	Default Glazing Reference	SHGC No Film	SHGC With Film	VLT No Film	VLT With Film
Residential	3 mm (1/8in.) clear	0.71	0.70	0.74	0.72
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.63	0.62	0.67	0.65
Non Residential	6 mm (1/4in.) clear	0.75	0.73	0.80	0.78
Non Residential	6 mm (1/4in.) grey	0.53	0.53	0.40	0.39
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.65	0.63	0.71	0.69
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.42	0.43	0.36	0.35

\* Read in accordance with National Fenestration Rating Council (NFRC) standards on 3mm. clear glass.

\*\*As certified by the National Fenestration Rating Council (NFRC).

† Dual pane window



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MADICO  
**SAFETYSHIELD®**  
**CL-400-XSR**

**Solar Optical Performance Data**

**Center of Glass Measurements:\***

**Total Solar Energy:**

Transmitted ..... 84%  
 Reflected ..... 9%  
 Absorbed ..... 7%

**Visible Light:**

Transmitted ..... 90%  
 Reflected Interior..... 9%  
 Reflected Exterior ..... 9%

U Value ..... 1.10  
 Emissivity.....0.95  
 Ultraviolet Light Rejected ..... 99%  
 Shading Coefficient .....0.98  
 Solar Heat Gain Coefficient .....0.85

Total Solar Energy Rejected .....14%

**Window Performance:\*\***

CL-400					
Type	Default Glazing Reference	SHGC No Film	SHGC With Film	VLT No Film	VLT With Film
Residential	3 mm (1/8in.) clear	0.71	0.71	0.74	0.73
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.63	0.63	0.67	0.66
Non Residential	6 mm (1/4in.) clear	0.75	0.74	0.80	0.79
Non Residential	6 mm (1/4in.) grey	0.53	0.54	0.40	0.40
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.65	0.64	0.71	0.70
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.42	0.43	0.36	0.35

\* Read in accordance with National Fenestration Rating Council (NFRC) standards on 3mm. clear glass.

\*\*As certified by the National Fenestration Rating Council (NFRC).

† Dual pane window



MADICO  
**SAFETYSHIELD®**  
**CL-700-XSR**

**Solar Optical Performance Data**

**Center of Glass Measurements:\***

**Total Solar Energy:**

Transmitted .....83%  
 Reflected .....9%  
 Absorbed ..... 8%

**Visible Light:**

Transmitted ..... 88%  
 Reflected Interior ..... 9%  
 Reflected Exterior ..... 10%

U Value ..... 1.10  
 Emissivity .....0.96  
 Ultraviolet Light Rejected ..... 99%  
 Shading Coefficient ..... .0.97  
 Solar Heat Gain Coefficient ..... 0.84

Total Solar Energy Rejected .....15%

**Window Performance:\*\***

	CL-700					
Type	Default Glazing Reference	SHGC No Film	SHGC With Film	VLT No Film	VLT With Film	
Residential	3 mm (1/8in.) clear	0.71	0.70	0.74	0.72	
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.63	0.63	0.67	0.66	
Non Residential	6 mm (1/4in.) clear	0.75	0.73	0.80	0.78	
Non Residential	6 mm (1/4in.) grey	0.53	0.53	0.40	0.39	
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.65	0.64	0.71	0.70	
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.42	0.43	0.36	0.35	

\* Read in accordance with National Fenestration Rating Council (NFRC) standards on 3mm. clear glass.

\*\*As certified by the National Fenestration Rating Council (NFRC).

† Dual pane window



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MADICO  
**SAFETYSHIELD®**  
**LCL-800-XSR**

**Solar Optical Performance Data**

**Center of Glass Measurements:\***

**Total Solar Energy:**

Transmitted ..... 83%  
 Reflected .....9%  
 Absorbed ..... 8%

**Visible Light:**

Transmitted ..... 88%  
 Reflected Interior ..... 10%  
 Reflected Exterior ..... 10%

U Value ..... 1.10  
 Emissivity .....0.96  
 Ultraviolet Light Rejected ..... 99%  
 Shading Coefficient .....0.97  
 Solar Heat Gain Coefficient .....0.84

Total Solar Energy Rejected ..... 15%

**Window Performance:\*\***

LCL-800					
Type	Default Glazing Reference	SHGC No Film	SHGC With Film	VLT No Film	VLT With Film
Residential	3 mm (1/8in.) clear	0.71	0.70	0.74	0.72
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.63	0.62	0.67	0.65
Non Residential	6 mm (1/4in.) clear	0.75	0.73	0.80	0.78
Non Residential	6 mm (1/4in.) grey	0.53	0.53	0.4	0.39
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.65	0.63	0.71	0.69
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.42	0.43	0.36	0.35

\* Read in accordance with National Fenestration Rating Council (NFRC) standards on 3mm. clear glass.

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† Dual pane window



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# MADICO SAFETYSHIELD® LCL-1400-XSR

## Solar Optical Performance Data

### Center of Glass Measurements:\*

#### **Total Solar Energy:**

Transmitted ..... 82%  
 Reflected .....10%  
 Absorbed .....8%

#### **Visible Light:**

Transmitted .....88%  
 Reflected Interior ..... 10%  
 Reflected Exterior .....10%

U Value .....1.09  
 Emissivity .....0.95  
 Ultraviolet Light Rejected .....99%  
 Shading Coefficient .....0.97  
 Solar Heat Gain Coefficient.....0.84

Total Solar Energy Rejected ..... 15%

### Window Performance:\*\*

LCL-1400					
Type	Default Glazing Reference	SHGC No Film	SHGC With Film	VLT No Film	VLT With Film
Residential	3 mm (1/8in.) clear	0.71	0.69	0.74	0.72
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.63	0.62	0.67	0.66
Non Residential	6 mm (1/4in.) clear	0.75	0.73	0.80	0.78
Non Residential	6 mm (1/4in.) grey	0.53	0.53	0.40	0.39
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.65	0.63	0.71	0.70
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.42	0.42	0.36	0.35

\* Read in accordance with National Fenestration Rating Council (NFRC) standards on 3mm. clear glass.

\*\*As certified by the National Fenestration Rating Council (NFRC).

† Dual pane window



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MADICO  
**SAFETYSHIELD®**  
**4-MIL RS-220-XSR**

**Solar Optical Performance Data**

**Center of Glass Measurements:\***

**Total Solar Energy:**

Transmitted ..... 14%  
 Reflected ..... 62%  
 Absorbed ..... 24%

**Visible Light:**

Transmitted ..... 18%  
 Reflected Interior ..... 59%  
 Reflected Exterior .....59%

U Value .....0.93  
 Emissivity .....0.62  
 Ultraviolet Light Rejected ..... 99%

Glare Reduction.....78%  
 Shading Coefficient ..... 0.26  
 Solar Heat Gain Coefficient .....0.22

Total Solar Energy Rejected ..... 81%

**Window Performance:\*\***

RS-220 4 mil					
Type	Default Glazing Reference	SHGC No Film	SHGC With Film	VLT No Film	VLT With Film
Residential	3 mm (1/8in.) clear	0.71	0.19	0.74	0.15
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.63	0.26	0.67	0.14
Non Residential	6 mm (1/4in.) clear	0.75	0.22	0.80	0.16
Non Residential	6 mm (1/4in.) grey	0.53	0.26	0.40	0.08
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.65	0.30	0.71	0.15
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.42	0.24	0.36	0.07

\* Read in accordance with National Fenestration Rating Council (NFRC) standards on 3mm. clear glass.

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† Dual pane window



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MADICO  
**SAFETYSHIELD®**  
**4-MIL RS-440-XSR**

**Solar Optical Performance Data**

**Center of Glass Measurements:\***

**Total Solar Energy:**

Transmitted .....36%  
 Reflected .....30%  
 Absorbed .....34%

**Visible Light:**

Transmitted .....44%  
 Reflected Interior .....29%  
 Reflected Exterior .....27%

U Value..... 0.99  
 Emissivity.....0.74  
 Ultraviolet Light Rejected .....99%

Glare Reduction .....50%  
 Shading Coefficient .....0.52  
 Solar Heat Gain Coefficient .....0.45

Total Solar Energy Rejected .....55%

**Window Performance:\*\***

Type	4 Mil RS-440		SHGC No Film	SHGC With Film	VLT No Film	VLT With Film
	Default Glazing Reference					
Residential	3 mm (1/8in.) clear		0.71	0.38	0.74	0.36
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear		0.63	0.42	0.67	0.33
Non Residential	6 mm (1/4in.) clear		0.75	0.41	0.80	0.39
Non Residential	6 mm (1/4in.) grey		0.53	0.36	0.40	0.20
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear		0.65	0.45	0.71	0.35
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear		0.42	0.32	0.36	0.18

\* Read in accordance with National Fenestration Rating Council (NFRC) standards on 3mm. clear glass.

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† Dual pane window



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MADICO  
**SAFETYSHIELD®**

# 8-MIL RS-440-XSR

## Solar Optical Performance Data

### Center of Glass Measurements:\*

**Total Solar Energy:**

Transmitted ..... 36%  
 Reflected .....30%  
 Absorbed .....34%

**Visible Light:**

Transmitted .....43%  
 Reflected Interior ..... 30%  
 Reflected Exterior ..... 29%

U Value.....1.02  
 Emissivity .....0.80  
 Ultraviolet Light Rejected ..... 99%

Glare Reduction .....51%  
 Shading Coefficient .....0.51  
 Solar Heat Gain Coefficient ..... 0.44

Total Solar Energy Rejected .....56%

### Window Performance:\*\*

8 Mil RS-440					
Type	Default Glazing Reference	SHGC No Film	SHGC With Film	VLT No Film	VLT With Film
Residential	3 mm (1/8in.) clear	0.71	0.37	0.74	0.35
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.63	0.42	0.67	0.33
Non Residential	6 mm (1/4in.) clear	0.75	0.40	0.80	0.38
Non Residential	6 mm (1/4in.) grey	0.53	0.36	0.40	0.19
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.65	0.44	0.71	0.35
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.42	0.32	0.36	0.17

\* Read in accordance with National Fenestration Rating Council (NFRC) standards on 3mm. clear glass.

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† Dual pane window



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MADICO  
**SAFETYSHIELD®**  
**4-MIL DG-35**

**Solar Optical Performance Data**

**Center of Glass Measurements:\***

**Total Solar Energy:**

Transmitted ..... 32%  
 Reflected .....25%  
 Absorbed .....43%

**Visible Light:**

Transmitted ..... 36%  
 Reflected Interior ..... 15%  
 Reflected Exterior .....22%

U Value: .....1.00  
 Emissivity.....0.76  
 Ultraviolet Light Rejected .....99%

Glare Reduction .....59%  
 Shading Coefficient ..... 0.53  
 Solar Heat Gain Coefficient ..... 0.45

**Window Performance:\*\***

		4 Mil DG-45			
Type	Default Glazing Reference	SHGC No Film	SHGC With Film	VLT No Film	VLT With Film
Residential	3 mm (1/8in.) clear	0.71	0.44	0.74	0.35
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.63	0.50	0.67	0.32
Non Residential	6 mm (1/4in.) clear	0.75	0.47	0.80	0.38
Non Residential	6 mm (1/4in.) grey	0.53	0.39	0.40	0.19
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.65	0.51	0.71	0.34
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.42	0.36	0.36	0.17

\* Read in accordance with National Fenestration Rating Council (NFRC) standards on 3mm. clear glass.

\*\*As certified by the National Fenestration Rating Council (NFRC).

† Dual pane window



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MADICO  
**SAFETYSHIELD®**  
**8-MIL DG-35**

**Solar Optical Performance Data**

**Center of Glass Measurements:\***

**Total Solar Energy:**

Transmitted .....33%  
 Reflected ..... 27%  
 Absorbed .....40%

**Visible Light:**

Transmitted .....44%  
 Reflected Interior .....15%  
 Reflected Exterior .....25%

U Value .....1.00  
 Emissivity .....0.77  
 Ultraviolet Light Rejected .....99%

Glare Reduction .....50%  
 Shading Coefficient .....0.58  
 Solar Heat Gain Coefficient .....0.50

Total Solar Energy Rejected ..... 57%

**Window Performance:\*\***

8 Mil DG-35					
Type	Default Glazing Reference	SHGC No Film	SHGC With Film	VLT No Film	VLT With Film
Residential	3 mm (1/8in.) clear	0.71	0.42	0.74	0.36
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.63	0.47	0.67	0.33
Non Residential	6 mm (1/4in.) clear	0.75	0.45	0.80	0.39
Non Residential	6 mm (1/4in.) grey	0.53	0.38	0.40	0.20
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.65	0.49	0.71	0.35
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.42	0.34	0.36	0.17

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† Dual pane window



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MADICO  
**SAFETYSHIELD®**  
**8-MIL DG-45**

**Solar Optical Performance Data**

**Center of Glass Measurements:\***

**Total Solar Energy:**

Transmitted .....36%  
 Reflected ..... 22%  
 Absorbed ..... 42%

**Visible Light:**

Transmitted .....41%  
 Reflected Interior .....16%  
 Reflected Exterior ..... 20%

U Value .....1.00  
 Emissivity.....0.77  
 Ultraviolet Light Rejected .....99%

Glare Reduction .....53%  
 Shading Coefficient .....0.55  
 Solar Heat Gain Coefficient.....0.47

Total Solar Energy Rejected ..... 53%

**Window Performance:\*\***

8 Mil DG-45					
Type	Default Glazing Reference	SHGC No Film	SHGC With Film	VLT No Film	VLT With Film
Residential	3 mm (1/8in.) clear	0.71	0.40	0.74	0.34
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.63	0.46	0.67	0.31
Non Residential	6 mm (1/4in.) clear	0.75	0.43	0.80	0.36
Non Residential	6 mm (1/4in.) grey	0.53	0.36	0.40	0.18
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.65	0.48	0.71	0.33
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.42	0.34	0.36	0.16

\* Read in accordance with National Fenestration Rating Council (NFRC) standards on 3mm. clear glass.

\*\*As certified by the National Fenestration Rating Council (NFRC).

† Dual pane window

