



## SilverScreen High Performance Solar Screen Product Specifications

Benefits: SilverScreen metal backed screen fabric provides excellent vision out, and dramatically reduces heat and glare at the window independent of color. The fabric offers an unparalleled solar reflectance of 78%. Constructed from a hard-wearing PVC-coated fiberglass yarn and woven to 2400mm inwidth, SilverScreen is inherently flame retardant.

### Specifications

Category	High Performance Solar Screen	Composition	64% PVC, 36% Fiberglass
Openness Factor	4%		Aluminum backing
UV Blockage	Approximately 96%	Thickness	0.55 mm ±5%
Weave style	1 x 2 Basket weave	Weight	400 g/m2
Anti-Static	Yes	Width	94" (2400 mm ±50 mm)
Color Fastness	7 - 8 [ISO 105-B02]		

Fire Classifications:	NFPA 701 NFP 92503 Specification M1 BS 5867 Part 2 Type B
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Anti-Microbial Properties:	ASTM-E2149-01
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Certifications:	GreenGuard/Greenguard Children & Schools Confidence in Textiles Oko-Tex Standard 100 ISO 14001/ISO 9001
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Environmental Benefits:	Formaldehyde free
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Care & Cleaning:	Fabric is anti-static and therefore dust repellant. For regular maintenance, use a soft feather duster or vacuum-clean with a soft brush on a low setting.
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Additional Certifications:	ISO 9001:200 ISO 14001:2004
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Optical properties conform to ISO 9050 & EN 410

For complete technical information, current test results, performance specifications and larger samples, contact the Insolroll, Inc.

Fenestration Properties (Solar Optical Properties)	Fabrics installed internally, <b>Zero-degree profile</b>
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Color	Tv	RS	AS	TV	SHGC*
White	6	77	17	6	0.14
Light Grey	5	77	18	5	0.13
Beige	6	77	17	5	0.13
Bronze	4	78	18	4	0.13
Dark Grey	4	76	20	4	0.13
Black	4	76	20	4	0.14
Typical 5% open solar screen values for comparison					
White	20	71	9	17	0.28
Medium Grey	12	51	37	9	0.31
Black	4	6	90	4	0.37

**Definition of terms:**

<b>Ts= Solar Transmittance</b>	Energy that is allowed to pass through
<b>Rs= Solar Reflectance</b>	Energy that is reflected away
<b>As= Solar Absorptance</b>	Energy that is absorbed by the fabric
<b>Tv= Visible Light Transmission</b>	Percentage of visible light that comes into the room
<b>OF= Openness Factor</b>	Percentage of fabric that is open (between the threads)
<b>SHGC= Solar Heat Gain Coefficient</b>	The percentage of incident solar radiation that is transmitted as heat to the interior through the glass and shading system*.
<b>CL= Clear Glass</b>	

\*Glass tested: High Performance Glazing; reference glazing D EN 14501.

### Technical Information

Fabric colour code ED01 White

Solar transmission	6%
Solar reflection	77%
Light transmission	6%
Light reflection	76%
UV transmission	5%
Openness factor (nominal)	4%
Ra (Colour rendering index)	100%

### High performance glazing (reference D EN 14501)

	Glass	Glass+Shade
Light transmission	60%	4%
G-value	32%	14%
SC Shading coefficient	37%	16%
U-value (W/m <sup>2</sup> K)	1.1	0.7

### Insulating glazing (reference glazing C EN 14501)

	Glass	Glass+Shade
Light transmission	79%	7%
G-value	59%	31%
SC Shading coefficient	98%	36%
U-value (W/m <sup>2</sup> K)	1.2	0.8

### 4mm double clear glazing (reference glazing B EN 14501)

	Glass	Glass+Shade
Light transmission	82%	7%
G-value	76%	30%
SC Shading coefficient	87%	34%
U-value (W/m <sup>2</sup> K)	2.8	1.5

### 4mm single clear glazing (reference glazing A EN 14501)

	Glass	Glass+Shade
Light transmission	90%	7%

G-value	76%	26%	76%	19%
SC Shading coefficient	68%	30%	68%	22%
U-value (W/m <sup>2</sup> K)	1.2	2.1	1.2	1.7

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