


# Insolroll Fabric Collection: Technical Specifications, EnviroScreen High Performance Fabric



## High Performance Fabric Collection

<b>Name:</b>	EnviroScreen High Performance Solar Screen
<b>Composition:</b>	Trevira Polyester, aluminum backing, PVC-free
<b>Thickness:</b>	0.50 mm
<b>Weight:</b>	250 g/m <sup>2</sup>
<b>Width:</b>	94" (238.8 cm)
<b>Openness Factor:</b>	5%

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Fenestration Properties		
Fabrics installed internally, Zero-degree profile		
*Solar Optical Properties		
Color	Tv	SC (internal) w 1/4" CL single glass
Driftwood	7%	0.3
Desert Sand	6%	0.3
Steel Grey	4%	0.3
Black Ink	4%	0.3

### Definition of terms:

<b>Ts</b>	Solar Transmittance
<b>Rs</b>	Solar Reflectance
<b>As</b>	Solar Absorptance
<b>Tv</b>	Visible Light Transmittance
<b>OF</b>	Openness Factor
<b>SC</b>	Shading Coefficient
<b>CL</b>	Clear Glass
<b>HA</b>	Heat Absorbing Glass

Optical properties conform to ISO 9050 & EN 410

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

<b>Fire Classifications:</b>	NFPA 701 ISO 13 773 DIN 4102 B1 BS 5867 Part 2 Type B
<b>Anti-Microbial Properties:</b>	ASTM-E2149-01
<b>Certifications &amp; Endorsements:</b>	GreenGuard/Greenguard Children & Schools Confidence in Textiles Oeko-Tex Standard 100 ISO 14001/ISO 9001
<b>Environmental Benefits:</b>	Formaldehyde free; PVC-Free
<b>Care &amp; Cleaning:</b>	Fabric should be regularly dusted/vacuumed as appropriate. If commercial spot cleaners are used, they must first be tested and allowed to dry on an inconspicuous area, to ensure compatibility.
<b>Misc. Properties</b>	Anti-Static Colour Fastness =<5

### Technical Information

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Fabric colour code 000

0

Solar transmission	7%
Solar reflection	65%
Light transmission	7%
Light reflection	64%
UV transmission	5%
Openness factor (nominal)	4%
Ra (Colour rendering index) <sup>9</sup>	99%
<b>High performance glazing (reference D EN 14501)</b>	

	Glass	Glass+Shade
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Light transmission	60%	5%
G-value	32%	17%
SC Shading coefficient	37%	20%
U-value (W/m <sup>2</sup> K) 1.1 0.8	1.1	0.8

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

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

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

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

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

	Glass	Glass+Shade
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Light transmission 90% 7%	90%	7%
G-value 76% 26%	76%	26%
SC Shading coefficient 68% 30%	68%	30%
U-value (W/m <sup>2</sup> K) 1.2 2.1	1.2	2.1