

SELECTING SOLAR SHADE FABRIC

SWFcontract Solar Shading Systems combine function, flexibility, and a clean design aesthetic for managing sunlight in today's commercial interiors. A broad collection of high performance, light-filtering fabrics helps to optimize natural light while controlling heat and glare. State-of-the-art fabrics are often specified in LEED™ projects. SWFcontract fabrics include GREENGUARD®, and ShadeDefense (ASTM G21 & ASTM E2180) certified options.

To make it easier for you to choose the best fabric for your project, we've clarified terms and provided information below. If you have any questions, contact your SWFcontract Sales Manager, who is happy to help.

SOLAR OPTICAL PROPERTIES

Visible Transmittance (Tv)

- Measures the percentage of visible light that passes through the fabric
- Fabrics with the same openness factor may differ slightly in Tv due to the reflectivity of light colors

Solar Transmittance (Ts)

- Measures the percentage of solar radiation that passes through the fabric

Solar Reflectance (Rs)

- Measures the percentage of solar radiation reflected back out of the fabric

Solar Absorbance (As)

- Measures the percentage of solar radiation absorbed by the fabric

Ts + Rs + As = 100% of the solar energy hitting the fabric

BUILDING ORIENTATION

	Sun Exposure	Fabric Performance	Fabric Openness
North	Less exposure	Less sun control required	>5%
South	High exposure	High sun control required	1 or 3%
East	Medium exposure	Moderate sun control required	3 or 5%
West	Medium exposure	Moderate sun control required	3 or 5%

PERFORMANCE CHARACTERISTICS BY OPENNESS FACTOR

Blackout Fabrics: 0% openness

- Opaque fabric prevents daylight transfer through fabric
- No view when fully lowered
- Complete light seal with side and sill channels
- Applications include boardrooms, training rooms, laboratories, and auditoriums
- 0-1% fabrics are also available, blending the benefit of blackout and 1% open fabrics

Semi-Opaque Fabrics: 1-3% openness

- Allows minimal daylight transfer through fabric
- Limited view
- Best for east, south, west facing windows
- Applications include private offices, patients' rooms, and other areas requiring privacy

Sheer Fabrics: 5-10% openness

- Daylight filters through fabric
- Diffused view
- Best for north facing windows
- Applications include lobby and open office design

Sheer Fabrics: 14% openness

- Daylight filters through fabric
- Great for maintaining view
- Minimal privacy

PERFORMANCE CHARACTERISTICS BY FABRIC COLOR

Dark Color Fabrics

- Absorb more solar radiation to increase energy efficiency
- Provide better light control
- Reduce interior glare while maintaining view
- Enhanced view in daylight

Light Color Fabrics

- Reflect more solar radiation to increase energy savings
- Allow more daylight through the fabric
- Diminished view in daylight

Dual-Sided Fabrics

- Combine the strengths of dark and light color fabric
- Dark color inward facing and light color outward facing
- Allow for heat reduction and glare reduction at the same time

SOLAR FABRIC COLLECTION

COLLECTION	OPENNESS	FABRIC WIDTH	FABRIC WEAVE	FABRIC COMPOSITION
SWFcontract Proprietary Fabrics				
Factor M1400	14%	98"	Jacquard	22% Polyester/78% Vinyl on Polyester
Crosshatch S100	1%	118"	2x2 Thin Basketweave	21% Polyester/79% Vinyl on Polyester 24% Polyester/76% Vinyl on Polyester 25% Polyester/75% Vinyl on Polyester
Crosshatch S300	3%	118"	2x2 Thin Basketweave	18% Polyester/82% Vinyl on Polyester 21% Polyester/79% Vinyl on Polyester 24% Polyester/76% Vinyl on Polyester
Crosshatch S500	4%	118"	2x2 Thin Basketweave	16% Polyester/84% Vinyl on Polyester 21% Polyester/79% Vinyl on Polyester 24% Polyester/76% Vinyl on Polyester
Crosshatch S1000	10%	118"	2x2 Thin Basketweave	16% Polyester/84% Vinyl on Polyester 21% Polyester/79% Vinyl on Polyester 24% Polyester/76% Vinyl on Polyester
Crosshatch A100	1%	98"	2x2 Thin Basketweave	15% Polyester/85% Vinyl on Polyester
Crosshatch A300	3%	98"	2x2 Thin Basketweave	15% Polyester/85% Vinyl on Polyester
Crosshatch A500	5%	98"	2x2 Thin Basketweave	15% Polyester/85% Vinyl on Polyester
Crosshatch R100	1%	118"	2x2 Thin Basketweave	21% Polyester/79% Vinyl on Polyester 24% Polyester/76% Vinyl on Polyester 25% Polyester/75% Vinyl on Polyester
Crosshatch R300	3%	118"	2x2 Thin Basketweave	18% Polyester/82% Vinyl on Polyester 21% Polyester/79% Vinyl on Polyester 24% Polyester/76% Vinyl on Polyester
Crosshatch R500	5%	118"	2x2 Thin Basketweave	16% Polyester/84% Vinyl on Polyester 21% Polyester/79% Vinyl on Polyester 24% Polyester/76% Vinyl on Polyester
Double-Take T100	1%	98"	Twill Weave	22% Polyester/78% Vinyl on Polyester
Double-Take T300	3%	98"	Twill Weave	15% Polyester/85% Vinyl on Polyester
Double-Take T500	5%	98"	Twill Weave	15% Polyester/85% Vinyl on Polyester
Summit U100	1%	118"	2x2 Thick Basketweave	19% Polyester/81% Vinyl on Polyester 25% Polyester/75% Vinyl on Polyester
Summit U300	3%	118"	2x2 Thick Basketweave	19% Polyester/81% Vinyl on Polyester 25% Polyester/75% Vinyl on Polyester
Summit U500	5%	118"	2x2 Thick Basketweave	13% Polyester/87% Vinyl on Polyester 25% Polyester/75% Vinyl on Polyester
Latitude X100	1%	118"	1x1 Vertical Plain Weave	25% Polyester/75% Vinyl on Polyester
Aspect	4%	98"	Jacquard	15% Polyester/85% Vinyl on Polyester
Zenith	4%	98"	Jacquard	15% Polyester/85% Vinyl on Polyester
Vision	7%	98"	Jacquard	16% Polyester/84% Vinyl on Polyester
Nightfall	Blackout	72"	Blackout Roller	3-Ply Vinyl/1-Ply Fiberglass
Enterprise	Blackout	122"	Blackout Roller	100% Polyester
Sheer Lines	36%	94½"	Hospitality Sheer Roller	100% Polyester